

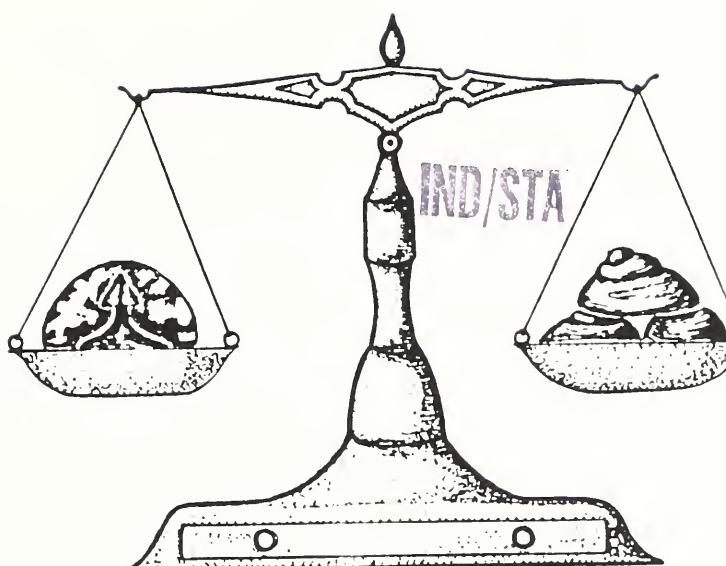
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THE SCALE



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INFORMATION ON ISSIS-V

from Michael Kosztarab

Dr. Antonio Tranfaglia reported good progress with the Fifth International Symposium of Scale Insect Studies (ISSIS-V) to be held in Portici, Italy, between June 24-28, 1986. By July 1985 people from 11 countries had preregistered. If you have not returned your form to him as yet, please do so as soon as possible, because he wanted it by December 1, 1985. If it is lost, just send a note with the title of your paper. If you need a personal invitation from the organizers, please request one by air mail from Prof. A. Tranfaglia, Instituto di Entomologia Agraria, Via Universita, 100-80055 Portici (NA), Italy, but be sure to give him the title of your talk. If your fiscal year starts with July 1, you may be able to request payment for this trip from the next fiscal year's budget. There are no outside funds to pay for the cost of our participation.

You may want to combine this event with (1) studying the famous scale insect collection housed at the above institution and/or (2) visiting local historic and scenic attractions. The scale collection includes precious types and other materials from Berlese, Silvestri, Leonardi, Buchner, also Lupo (in part), not to mention the present day workers' collections. It is worldwide in scope. Portici is a beautiful town just south of Naples, with the University of Agriculture housed in the old Royal Summer Palace. Touring the University of Agriculture and the adjoining sericultural and apicultural research institutes can make this an educational event, as it did for me, when I visited there in 1972. Portici and the general area along the Tyrrhenian sea coast overlooking Vesuvius, historical sites such as Pompeii, and the lovely romantic places such as Sorrento and the Island of Capri, can make this also a wonderful combination vacation-work trip for you and your family. Don't miss it; even if you have to put up most or all, of the cost, this will be a very memorable and productive meeting. In some countries the cost of attending such professional meetings, if officially approved, but without

funding, can be used as a tax-deduction. There usually are inexpensive air flights from your area to Rome if you shop around and make reservations early enough.

The timing of the Symposium is ideal, because in June we avoid most of the tourist crowds, higher prices, and the mid-summer heat. There are good train, airplane and bus connections between Rome and Naples.

I am looking forward to meeting all coccidologists and their families in Portici next June.

Addendum to "Information on ISSIS-V"

I have just received from Professor E. Tremblay on December 13, 1985, a copy of the ISSIS-V draft program with a list of presentations and I would like to share this information with those interested in it.

There are 50 slots scheduled for 15 minute presentations (I am assuming these are meant for 12 minutes with 3 minutes for discussion) during the days of June 24, 25, and 26. Visits are planned to the Institute of Agricultural Entomology in Portici, also possibly during the free afternoon of June 26 to the excavations of Herculeanum and Pompeii. June 27 (Friday) is reserved for an all day excursion, while June 28 (Saturday) includes more presentations and a round table discussion, also the conclusions of the meetings by noon.

The titles already received were included in the following four subject categories: Phylogeny and Taxonomy (14), Faunistics (11), Morphology (7), and Coccoidea of Economic Importance and their Natural Enemies (16). No title was received for one talk as yet, and I know some additional colleagues who are planning to send their titles soon.

It appears at present that ISSIS-V will be the best attended international coccidology meeting, because there are already 48 presentations listed by 48 speakers (two with double authorship). The speakers are from the following 16 countries (number of presentations is in parenthesis): Australia (2), China (5), Egypt (4), Ethiopia (1), Great Britain (3), Greece (1), Hungary (1), India (7), Israel (1), Italy (7), New Zealand (1), Philippines (1), Poland (2), Taiwan (1), USA (5), and USSR (6). All papers presented at ISSIS-V will be published by the Institute of Agricultural Entomology in one of their bulletin series.

The finalized program, with more information, will be sent to you soon. In the meantime we would like to express our thanks to Professors Tranfaglia, Tremblay, and Viggiani for undertaking the organization and hosting of this important milestone in the history of coccidological research and education in the world.

Michael Kosztarab

NOTES FROM VIRGINIA TECH
M. Kosztarab

Current Research: Our Coccidology Laboratory at Virginia Polytechnic Institute and State University initiated a revision of the North American Chionaspis this year. Please help us by lending preserved material from your private and/or institutional collection. We also can utilize samples collected periodically from your local Chionaspis populations for biological information on life cycle, host-preferences, parasites, etc. and for rearing adult males.

New Student: Mr. Liu Tong-xian, of the Agricultural University of Shandong, China, is joining us for MS degree research on December 15, 1985. He is Professor Tang Fang-teh's former student.

Publications: After 10 years of work, two manuscripts went to the printer recently: (1) Scale Insects of Central Europe. Publisher - Akademiai Kiado, Budapest. Coauthored by M. Kosztarab and F. Kozar. It may be printed by the end of 1986; (2) The Nearctic Kermesidae (actually includes two separate titles). Publisher - Va. Polytech. Inst. & State Univ. Publication 85-11, 261 pages. Coauthored by R. C. Baer, S. W. Bullington and M. Kosztarab. Expect it ready by January 1986. It will be mailed automatically on an exchange basis to all coccidologists who are on our mailing list. If you don't receive it by July 15, please let me know.

The Third Supplement to an Annotated List of Generic Names of the Scale Insects is in final preparation in coauthorship with Yair Ben-Dov. Suggestions for an inexpensive and fast publishing outlet will be appreciated. Please let us know about any new genera that were proposed and printed in an obscure journal or that appeared in an article that was not sent to us for cataloging.

The first part of our coccoid slide collection inventory, prepared mainly due to the efforts of Ms. Mary Rhoades, is being printed in this issue, and we hope to see the second part printed next year.

General Comments: I was pleased to see published in the recent SCALE issues the results of some work volunteered and pledged by coccidologists at the ISSIS-IV meeting in Budapest (Kosztarab 1984:416-418. Summary of two business meetings.). Some of you are completing such manuscripts now. Please send these articles and materials of general interest to all coccidologists, also periodic reports on your work to D. R. Miller for inclusion in the next SCALE. Dug needs more help from all of us in the future because his studies have increased with his recent appointment to an administrative position, Research Leader of the Systematic Entomology Laboratory, Agricultural Research Service, U.S. Dept. of Agric. Congratulations from all of us, who depended heavily on his professional help in the past. We just hope that he still finds further needed coccidological work.

The following information came from Willem Hogenes, Instituut voor Taxonomische Zoologie, Zoologisch Museum, Universiteit van Amsterdam:

"With this letter I send you my translation of Dr. A. Reyne's obituary. Perhaps you remember that I promised you to make one. I did not have much time to do so, but nevertheless I completed it some weeks ago. As you will notice, the text is just translated and not rewritten, so it is translated Dutch. Please, if you want to send this translation to your Coccoidea-friends, transform it into more genuine English (or

American if there is a difference in style between those two "languages"). Anyway I hope that it is useful for you and other "coccidologists."

Dr. A. Reyne - Obituary: 18 VI 1890 - 24 V 1967

On May 29 family and friends laid Dr. Adriaan Reyne to rest in the cemetery "Westerveld" (near Velsen and Haarlem).

He was a devoted member, but as walking became more and more difficult, we did not see much of him at society activities. Nevertheless he continued energetically to work on his favorite study, the scale-insects (Coccidae). More and more he did this work at home, but until his last illness he visited the Zoological Museum of Amsterdam in the Zeeburgerdijk from time to time where he had a worktable.

Although he was quite old, he lived and worked in great unpretentiousness, and had a great sense of humor. He spoke with enthusiasm about his many experiences in the tropics. He was the only Dutch entomologist who had worked both in Surinam and in the Dutch East Indies (now Indonesia).

A few months ago he was suddenly admitted to the hospital for what should have been a minor operation. However, we gradually realized that there was no hope for recovery.

After his early schooling he was in military service during the first World War and only in 1918 could he start working as an entomologist at the "Laadbooproefstation" (Agricultural Research Centre) in Surinam, under directorship of Prof. D. G. Stahel. He stayed there until 1924 and made a special study of the control of the "cacao-thrips" (a thysanopteran specialized on Cacao?). During this time he developed several interests and wrote among other things a fascinating booklet on the "Geschiedenis der Cacaocultuur in Suriname" (History of the Cacao-cultures in Surinam).

In 1924 he began study in Europé and on December 15th, 1926 he received his Doctorate based on his thesis (Onderzoekingen over de monddeelen der Thysanoptera) (researchers on the mouth-parts of Thysanoptera), a profound study, that is still of great value.

In 1927 he left for the Dutch East Indies, where he studied the scale insect pest (Aspidiotus) of cocos trees on the island of "Groot Sangihe." This was the beginning of his later specialization on scale insects.

There was a great need for more research in the cocos culture and an Experimental Station in Menado in northern Celebes was established and Reyne became the chief.

In 1933 he retired and settled in The Netherlands, where he studied subjects that interested him. At first his research concerned cocos trees, like the chapter "De cocospalm" in the handbook by Van Hall & Van de Koppel. But also other subjects arose, such as the cocoscrab (*Birgus latro* L.) and the so called "cocos-pears." He also studied the enlargement of pools originated after breaks of the dykes.

After 1947 Reyne started working more and more on scale insects. This was requested by Dr. D. Hille Ris Lambers, who had his own hands full with the study of aphids. Reyne worked on the scale insects with great dedication. He maintained an active correspondence with other coccidologists and had a good international reputation. Many papers were published. Many people have made good use of his review of the Dutch Coccidae, published by the "Koninklijke Nederlandse Natuurhistorische Vereniging" (Royal Dutch Natural History Society)(1957).

During meetings of our society he often brought interesting material with him of which he told many particulars. Whoever asked him for information always got very detailed answers. Willingly he gave others the chance to profit from his enormous knowledge on many subjects, and everyone who met him was struck by his honesty and open-heartedness.

For himself he took very little and he lived in great simplicity. Silently however he did much good and only a few insiders know how often he made other people happy with moral or material support. A good man, a loyal friend, an appreciated colleague has left us.

In the name of friends and colleagues
P.M.L. Tammes, Wageningen
G.L. van Eyndhoven, Amsterdam

from Ent. Ber., A'dam, 27(1967): 121-122
translation by Willen Hogenes

THE COCCOIDEA SLIDE COLLECTION AT VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY, BLACKSBURG

Part I - Families Aclerdidae through Diaspididae

Michael Kosztarab and Mary H. Rhoades

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The collection was begun in 1962 with M. Kosztarab's appointment as curator of the insect collections in this department and with the donation of his private collection. The Coccoidea collection at the present includes approximately 54,000 specimens mounted on about 21,000 slides, including 561 types and 483 voucher specimens. The voucher specimens resulted from research completed in our coccidology laboratory. The specimens, with few exceptions, are permanently mounted in Canada balsam. A large part of the slides resulted from research work completed with M. Kosztarab by his former graduate students: R. G. Baer, R. C. Brachman, S. W. Bullington, A. D'Ascoli, A. B. Hamon, J. O. Howell, P. L. Lambdin, M. L. Williams, P. A. Willoughby, and S. P. Yang. Slides from the work of D. K. Pollet, a former PhD candidate in this department, and S. Afifi, a postdoctoral fellow who worked with M. Kosztarab, are also in our collection. Several colleagues who retired from this department donated their slide collections to us, namely J. M. Amos, M. L. Bobb, J. McD. Grayson, C. H. Hill, and W. S. Hough.

A significant part of the paratype material along with other valuable slides was donated by R. F. Wilkey. Many other people, too numerous to list, sent us donations of slides throughout the past 24 years.

The Coccoidea collection is of world-wide scope and as such its significance for researchers was recognized by the National Science Foundation providing a grant (BSR-8317213) for its improvement and greater utilization, along with other parts of the university's insect collection.

The original spelling of generic and specific names found on slides has been retained, except for correcting a few obvious misspellings.

Requests for loans of Coccoidea material should be sent to M. Kosztarab. Loans are made for a period of six months, unless requested and approved otherwise. Holotypes, and part of the paratypes resulting from our work and/or from specimens loaned from this collection, are, as a rule, donated to the U.S. National Museum of Natural History.

Our slide-mounted specimens are often complemented by dry or alcohol-preserved material in our collection. Exchanges of new material for our duplicate slides are encouraged.

TYPE ABBREVIATIONS: C=Cotype, N=Neotype, P=Paratype or Paralectotype,
T=Type material, TT=Topotype

STAGE ABBREVIATIONS: The number of specimens and their stages are given in parenthesis for type slides. f=adult female, m=adult male,
n=nymph, p=pupa

Genus	Species	Author	No. of Types	No. of Slides
ACLERDIDAE				
Aclerda	andropogonis	McConnell		1
Aclerda	ariditatis	Ferris	1(1f)P	
Aclerda	arizonica	McConnell	1(1f)P	
Aclerda	arundinarinae	McConnell		5
Aclerda	attenuata	Ferris	1(1f)P	
Aclerda	balachowskyi	McConnell	1(1f)P	
Aclerda	berlesii	Buffa		1
Aclerda	californica	(Ehrhorn)		1
Aclerda	chiriquiensis	McConnell	1(1f)P	
Aclerda	chusqueae	McConnell	1(1f)P	
Aclerda	distorta	Green		1
Aclerda	ferrisi	McConnell	1(1f)P	
Aclerda	holci	Teague		1
Aclerda	ischaemi	Ramakrishna	2(2f)P	1
Aclerda	marylandica	McConnell	2(2f)P	
Aclerda	mexicana	McConnell		1
Aclerda	oaxacaensis	McConnell	1(1f)P	
Aclerda	pasquieri	Balachowsky		1
Aclerda	sacchari	Teague		1
Aclerda	santensis	Hempel	1(1f)P	
Aclerda	simplicis	McConnell	1(1f)P	
Aclerda	subterranea	Signoret		2
Aclerda	takahashii	Kuwana		1
Aclerda	texana	McConnell	1(1f)P	
Aclerda	tillandsiae	Howell	5(5f)P	
Aclerda	tokionis	(Cockerell)		2
Aclerda	xalapenseae	McConnell		1
Aclerda	undetermined			41
Nipponaclerda	biwakoensis	(Kuwana)	1(1f)C	1
Rhodesaclerda	combrethicola	McConnell	1(1n)P	
Rhodesaclerda	halli	McConnell	2(1f, 2n)P	
Aclerdidae	undetermined			9
APIOMORPHIDAE				
Apiomorpha	umbellata	(Froggatt)		1
Apiomorpha	undetermined			6
ASTEROLECANIIDAE				
Asterolecanium	arabidis	(Signoret)		10
Asterolecanium	bambusae	(Boisduval)		11
Asterolecanium	epidendri	(Bouche)		2
Asterolecanium	grandiculum	Russell		1
Asterolecanium	inlabefactum	Russell		1
Asterolecanium	loranthi	Green		3
Asterolecanium =A.	miliaris			
Asterolecanium	minus	Lindinger		15
Asterolecanium	palmae	Cockerell		1
Asterolecanium	pustulans	(Cockerell)		9

Asterolecanium	puteanum	Russell	12
Asterolecanium	pyriforme	(Froggatt)	7
Asterolecanium	quercicola	(Bouche)	1
Asterolecanium	robustum	Green	3
Asterolecanium	undetermined		14
Frenchia	banksiae	Lambdin & Kosztarab	3(3f,2n,1p)P
Frenchia	casuarinae	Maskell	2
Frenchia	semiocculta	Maskell	1(1f)P
Grammococcus	adetocorymbus	Miller & Lambdin	1
Grammococcus	corymbus	Miller & Lambdin	1(3f)P
Mycetococcus	undetermined		1
Palmaspis	phoenicis		2
Pollinia	pollini	(Costa)	4
Sclerosococcus	bromeliae	McKenzie	1(1f)P
Asterolecaniidae	undetermined		-25
CEROCOCCIDAE			
Cerococcus	albospicatus	Green	5
Cerococcus	andinus	Leonardi	3
Cerococcus	artemisiae	(Cockerell)	24
Cerococcus	baccharidis	(Hempel)	8
Cerococcus	badius	Leonardi	4(8f)P
Cerococcus	catenarius	Fonseca	3
Cerococcus	cistarum	Balachowsky	1(1f)P
Cerococcus	corokiae	(Maskell)	1
Cerococcus	cycliger	Goux	2(4f)P
Cerococcus	deklei	Kosztarab & Vest	2(2f)P
Cerococcus	dumonti	Vayssiere	24
Cerococcus	eremobius	(Scott)	1
Cerococcus	ficooides	Green	2
Cerococcus	froggatti	Morrison & Morrison	6
Cerococcus	indicus	(Maskell)	3
Cerococcus	intermedius	Balachowsky	18
Cerococcus	javanensis	Lambdin & Kosztarab	1
Cerococcus	kalmiae	Ferris	2(2f,13n)P
Cerococcus	koebeliai	(Cockerell)	13
Cerococcus	multipororum	Lambdin & Kosztarab	8
Cerococcus	oranensis	Balachowsky	1(1f)P
Cerococcus	paradoxus	(Maskell)	1
Cerococcus	parrotti	(Hunter)	9
Cerococcus	perovskiae	Archangelskaya	31
Cerococcus	punctiferus	(Green)	1(1f)TT
Cerococcus	quercus	Comstock	2(6f)P
Cerococcus	roseus	Green	19
Cerococcus	royenae	Brain	2(3f)P, 2(14n)T
Cerococcus	russellae	Kosztarab & Vest	15
Cerococcus	stellatus	(Maskell)	2

Cerococcus	theydoni	Hall	4
Cerococcus	zapotlanus	(Cockerell)	1
Cerococcus	undetermined		21
Solenophora	fagi	(Maskell)	3
CONCHASPIDIDAE			
Conchaspis	angraeci	Cockerell	13
Conchaspis	capensis	(Linnaeus)	1
Conchaspis	ekebergiae	Munting	1(1f)P
Conchaspis	lata	Hempel	6(n)
COCCIDAE			
Acanthopulvinaria	undetermined		2
Ceroplastes	ceriferus	(Anderson)	417
Ceroplastes	cirripediformis	Comstock	2
Ceroplastes	destructor	(Newstead)	2
Ceroplastes	dugesii	Lichtenstein	1
Ceroplastes	floridensis	Comstock	82
Ceroplastes	irregularis	Cockerell	6
Ceroplastes	japonica	Green	= 1
Ceroplastes	mexicanus	Cockerell	1
Ceroplastes	nakaharai	Gimpel	3(6f)P
Ceroplastes	pseudoceriferus	Green	2
Ceroplastes	rubens	Maskell	2
Ceroplastes	rusci	(Linnaeus)	7
Ceroplastes	sinensis	Del Guercio	157
Ceroplastes	undetermined		32
Coccus	acuminatus	(Signoret)	1
Coccus	acutissimus	(Green)	2
Coccus	aethiopicus	DeLotto	1
Coccus	consimilis	DeLotto	2
Coccus	ehretiae	(Brain)	1
Coccus	elongatus	(Signoret)	6
Coccus	hesperidum	(Linnaeus)	48
Coccus	longulus	(Douglas)	4
Coccus	mangiferae	(Green)	2
Coccus	pseudomagnoliarum	(Kuwana)	3
Coccus	viridis	(Green)	10
Coccus	viridulus	DeLotto	1
Coccus	undetermined		4
Cryptostigma	undetermined		1
Eriopeltis	coloradensis	Cockerell	1
Eriopeltis	festucae	(Fonscolombe)	8
Eriopeltis	lichtensteinii	Signoret	3
Eriopeltis	undetermined		13
Eucalymnatus =E.	tessellatus	(Signoret)	6
	perforatus	(Newstead)	1

Eulecanium	caryae	(Fitch)	4
Eulecanium	cerasorum	(Cockerell)	3
Eulecanium	kunoensis	(Kuwana)	1
Eulecanium	tiliae	(Linnaeus)	2
=Lecanium	coryli	(Linnaeus)	1
Filippia	follicularis	(Targioni-Tozzetti)	1
Filippia	oleae	(Costa)	1
Filippia	viburni	(Signoret)	1
Inglisia	cheloniooides	Green	1
Inglisia	vitrea	Cockerell	4
Kilifia	americana	(Ben-Dov)	2(2f)P
Lecanium	undetermined		210
Lecanochiton	metrosideri	Maskell	1
Lecanopsis	festucae	Borchsenius	1
Lecanopsis	porifera	Borchsenius	2
Luzulaspis	borchsenii	Rehacek	1
=L.	scotica		
Luzulaspis	frontalis	Green	1
Luzulaspis	kosztarabi	Kozar & Koteja	1
Luzulaspis	luzulae	(Dufour)	5
Luzulaspis	nemorosa	Koteja	2
Luzulaspis	pieninica	Koteja	1
Luzulaspis	rajae	Kozar	1(2f)P
Mallococcus	sinensis	(Maskell)	1
Mesolecanium	deltae	Lizer	1
Mesolecanium	nigrofasciatum	(Pergande)	76
Metaceronema	undetermined		2
Neolecanium	cornuparvum	(Thro)	34
Neolecanium	silverai	(Hempel)	1
Neopulvinaria	imeretina	Hadzibejli	1
Palaeolecanium	bituberculatum	(Targioni-Tozzetti)	4
Parafairmairia	gracilis	Green	5
Paralecanium	undetermined		1
Parasaisssetia	nigra	(Nietner)	27
Parthenolecanium	corni	(Bouche)	9
Parthenolecanium	fletcheri	(Cockerell)	5
Parthenolecanium	persicae	(Fabricius)	16

Parthenolecanium	pruinosum	(Coquillett)	1
Parthenolecanium	quercifex	Fitch	1
Parthenolecanium	rufulum	(Cockerell)	2
Parthenolecanium	undetermined		1
Philephedra	ephedrae	(Cockerell)	1
Philephedra	lutea	(Cockerell)	1
Physokermes	concolor	Coleman	1
Physokermes	hemicryphus	(Dalman)	15
Physokermes	inopinatus	Danzig & Kozar	1
Physokermes	insignicola	(Crawford)	1
Physokermes	piceae	(Schrank)	5
Physokermes	undetermined		1
Protopulvinaria	longivalvata	Green	1
Protopulvinaria	mangiferae	(Green)	3
Protopulvinaria	pyriformis	(Cockerell)	15
Pseudophilippia	quaintancii	(Cockerell)	23
Pulvinaria	acericola	(Walsh & Riley)	33
Pulvinaria	betulae	(Linnaeus)	3
Pulvinaria	bigeloviae	(Cockerell)	3
Pulvinaria	delottoi	Gill	2(2f)P
Pulvinaria	ericicola	McConnell	
Pulvinaria	floccifera	(Westwood)	28
Pulvinaria	greeni	Froggatt	1
Pulvinaria	hydrangeae	Steinweden	3
Pulvinaria	innumerabilis	(Rathvon)	59
Pulvinaria	mesembrianthemi	(Vallot)	1
Pulvinaria	occidentalis	Cockerell	1
Pulvinaria	phaiae	Lull	1
Pulvinaria	psidii	Maskell	4
Pulvinaria	regalis	Canard	2
Pulvinaria	urbicola	Cockerell	1
Pulvinaria	undetermined		29
Rhizopulvinaria	grassei	(Balachowsky)	1
Rhizopulvinaria	spinifera	Borchsenius	1
Rhodococcus	rosophilus	Borchsenius	1
Saissetia	coffeae	(Walker)	14
Saissetia	hemisphaerica	(Targioni-Tozzetti)	13
=S.	cof eae		
Saissetia	mit Linda	(Cockerell & Parrott)	8
Saissetia	oleae	(Olivier)	1
Saissetia	undetermined		8
Sphaerolecanium	prunastri	(Fonscolombe)	1

Toumeyella	liriodendri	(Gmelin)	5
Toumeyella	mirabilis	Cockerell	1
Toumeyella	nectandrae	Hempel	1
Toumeyella	parvicornis	(Cockerell)	8
Toumeyella	paulista	Hempel	1(1n)C
Toumeyella	pini	(King)	3
Toumeyella	pinicola	Ferris	1
Vinsonia	stellifera	(Westwood)	10
Vittacoccus	longicornis	Green	1
Coccidae	undetermined		125
 CRYPTOCOCCIDAE			
Cryptococcus	aceris	Borchsenius	3
Cryptococcus	fagisuga	(Lindinger)	25
Cryptococcus	williamsi	Kosztarab & Hale	1(1f)P
Pseudochermes	fraxini	(Kaltenbach)	3
			=
 DACTYLOPIIDAE			
Dactylopius	coccus	Costa	4
Dactylopius	confusus	(Cockerell)	8
Dactylopius	indicus	Green	1
Dactylopius	tomentosus	(Lamarck)	2
Dactylopius	undetermined		2
 DIASPIDIDAE			
Abgrallaspis	comstocki	(Johnson)	4
Abgrallaspis	cyanophylli	(Signoret)	15
Abgrallaspis	degenerata	(Leonardi)	1
Abgrallaspis	fraxini	(McKenzie)	2
Abgrallaspis	furcillae	(Brain)	1
Abgrallaspis	howardi	(Cockerell)	8
Abgrallaspis	ithacae	(Ferris)	33
Abgrallaspis	oxycoccus	(Woglum)	2
Abgrallaspis	quercicola	(Ferris)	1
Abgrallaspis	townsendi	(Cockerell)	68
Abgrallaspis	undetermined		7
Acanthomytilus	chui	Takagi	1(2f)T
Acutaspis	agavis	(Townsend & Cockerell)	1
Acutaspis	albopicta	(Cockerell)	1
Acutaspis	decorosa	Ferris	1(2f)T
Acutaspis	morrisonorum	Kosztarab	2(2f)P
Acutaspis	perseae	(Comstock)	19
Acutaspis	scutiformis	(Cockerell)	5
Acutaspis	subnigra	McKenzie	1
			1(1f)T

Acutaspis	tingi	McKenzie	1
Acutaspis	umbonifera	(Newstead)	1
Acutaspis	undetermined		4
Adiscodiaspis	tamaricicola	Malenotti	1
Africaspis	caffra	(Brain)	1
Africaspis	chionaspiformis	(Newstead)	1
Africaspis	gala	Munting	1
Ambigaspis	lycii	(Brain)	1
Anamaspis	lowi	(Colvee)	3
Anamefiorinia	casuarinae	(Maskell)	1
Ancepaspis	edentata	(Ferris)	1(1f)T
Ancepaspis	quadridentata	Ferris	1(3f)T
Ancepaspis	tridentata	Ferris	1
Andaspis	crawii	(Cockerell)	1
Andaspis	hawaiensis	(Maskell)	2
Andaspis	punicae	(Laing)	1
Andaspis	viticis	Takagi	1(1f)P
Annulaspis	polygona	Ferris	10(25f)T
Anoplaspis	maskelli	Morrison & Morrison	1
Anoplaspis	metrosideri	(Maskell)	1
Aonidia	atlantica	Ferris	2(2f)T
Aonidia	lauri	(Bouche)	1
Aonidia	nullispina	Munting	1
Aonidia	rhusae	Brain	1
Aonidia	sclerosa	Munting	1(1f)T
Aonidia	shastae	(Coleman)	4
Aonidia	yomae	Munting	1(1f)T
Aonidiella	aurantii	(Maskell)	3
Aonidiella	citrina	(Coquillett)	8
Aonidiella	comperei	McKenzie	1
Aonidiella	gracilis	(Balachowsky)	1(1f)T
Aonidiella	inornata	McKenzie	
Aonidiella	messengeri	McKenzie	1(2f)P
Aonidiella	orientalis	(Newstead)	12
Aonidiella	taxus	Leonardi	8
Aonidomytilus	albus	(Cockerell)	1
Aonidomytilus	bilobis	Ferris	2
Aonidomytilus	ceonothi	Ferris	1
Aonidomytilus	concolor	(Cockerell)	1
Aonidomytilus	crookiae	(Ferris)	2
Aonidomytilus	hyperici	Ferris	2
Aonidomytilus	multiglandulatus	Kosztarab	1(3f)P

<i>Aonidomytilus</i>	<i>sabatius</i>	Tippins	2
<i>Aonidomytilus</i>	<i>solidaginis</i>	(Hoke)	1
<i>Aonidomytilus</i>	<i>variabilis</i>	Ferris	1(1f)T
<i>Archangelskaia</i>	<i>ephedrae</i>	(Lindinger)	1
<i>Artemisaspis</i>	<i>abdita</i>	Munting	1(1f)T
<i>Arundaspis</i>	<i>secreta</i>	Borchsenius	1
<i>Aspidaspis</i>	<i>arctostaphyli</i>	(Cockerell & Robinson)	1
<i>Aspidaspis</i>	<i>densiflorae</i>	Bremner	1
<i>Aspidaspis</i>	<i>ithacae</i>	(Ferris)	1(2f)T
<i>Aspidaspis</i>	<i>tubulifera</i>	Balachowsky	2(2f)T
<i>Aspidiella</i>	<i>hartii</i>	(Cockerell)	1
<i>Aspidiella</i>	<i>rigida</i>	Ferris	1(1f)T
<i>Aspidiella</i>	<i>sacchari</i>	(Cockerell)	5
<i>Aspidiotus</i>	<i>cryptomeriae</i>	Kuwana	3
<i>Aspidiotus</i>	<i>destructor</i>	Signoret	12
<i>Aspidiotus</i>	<i>excisus</i>	(Green)	- 2
<i>Aspidiotus</i>	<i>hedericola</i>	Leonardi	1(1f)T
<i>Aspidiotus</i>	<i>nerii</i>	Bouche	19
<i>Aspidiotus</i>	<i>pangoensis</i>	Doane & Ferris	1
<i>Aspidiotus</i>	<i>pazamezii</i>	Gerson	1(1f)P
<i>Aspidiotus</i>	<i>spinosus</i>	Comstock	2
<i>Aspidiotus</i>	<i>tridentifer</i>	Ferris	1(1f)T
<i>Aspidiotus</i>	<i>undetermined</i>		3
<i>Aulacaspis</i>	<i>actinodaphnes</i>	(Takagi)	1(1f)T
<i>Aulacaspis</i>	<i>fulleri</i>	(Cockerell)	1
<i>Aulacaspis</i>	<i>madiunensis</i>	(Zehntner)	1
<i>Aulacaspis</i>	<i>maesae</i>	Takagi	1(1f)T
<i>Aulacaspis</i>	<i>mischo carpi</i>	(Cockerell & Robinson)	2(2f)T
<i>Aulacaspis</i>	<i>pallida</i>	(Robinson)	2(2f)T
<i>Aulacaspis</i>	<i>robusta</i>	Takahashi	1
<i>Aulacaspis</i>	<i>rosae</i>	(Bouche)	47
<i>Aulacaspis</i>	<i>saigusai</i>	Takagi	1(1f)T
<i>Aulacaspis</i>	<i>sumatreensis</i>	Green	1
<i>Aulacaspis</i>	<i>thoracica</i>	(Robinson)	1(1f)T
<i>Aulacaspis</i>	<i>tubercularis</i>	(Newstead)	1
<i>Aulacaspis</i>	<i>yabunikkei</i>	Kuwana	6
<i>Avidovaspis</i>	<i>phoenicis</i>	Gerson & Davidson	1
<i>Balaspis</i>	<i>faurei</i>	Hall	1
<i>Berlesaspidiotus</i>	<i>bambusarum</i>	(Cockerell)	1
<i>Carulaspis</i>	<i>juniperi</i>	(Bouche)	112
<i>Carulaspis</i>	<i>minima</i>	(Targioni-Tozzetti)	7
<i>Carulaspis</i>	<i>visci</i>	(Schrank)	5
<i>Carulaspis</i>	<i>undetermined</i>		10

Chionaspis	acericola	Hollinger	4
Chionaspis	americana	Johnson	2(6f)T 120
Chionaspis	caryae	Cooley	5
Chionaspis	corni	Cooley	7
Chionaspis	dendrobii	(Kuwana)	1
Chionaspis	etrusca	Leonardi	1
Chionaspis	furfura	(Fitch)	47
Chionaspis	gleditsiae	Sanders	26
Chionaspis	heterophyllae	Cooley	44
Chionaspis	kosztarabi	Takagi & Kawai	3(13f)P 105
Chionaspis	lepineyi	Balachowsky	1
Chionaspis	lintneri	Comstock	6
Chionaspis	longiloba	Cooley	1
Chionaspis	nyssae	Comstock	56
Chionaspis	ortholobis	Comstock	2
Chionaspis	parkii	Hollinger	22
Chionaspis	pinifoliae	(Fitch)	95
Chionaspis	salicis	(Linnaeus)	13
Chionaspis	salicisnigrae	(Walsh)	15
Chionaspis	sassceri	(Cockerell & Robbins)	4
Chionaspis	wistariae	Cooley	4
Chionaspis	undetermined		11
Chortinaspis	chortina	(Ferris)	1(1f)T
Chortinaspis	consolidata	Ferris	1(1f)T
Chortinaspis	subchortina	(Laing)	1
Chortinaspis	subterranea	Signoret	2
Chrysomphalus	ansei	(Green)	1(1f)T
Chrysomphalus	aonidum	(Linnaeus)	15
Chrysomphalus	aurantii	Maskell	2
Chrysomphalus	bifasciculatus	Ferris	1(1f)T 20
Chrysomphalus	dictyospermi	(Morgan)	12
Chrysomphalus	propsimus	Banks	1
Chrysomphalus	rubribullatus	(Froggatt)	1
Chrysomphalus	variabilis	McKenzie	1(1f)T
Circulaspis	bibursella	Ferris	11(19f)T
Circulaspis	canaliculata	(Green)	9(16f)T
Circulaspis	fistulata	(Ferris)	8(13f)T
Circulaspis	fistulella	Ferris	1
Clavaspis	covilleae	Ferris	1
Clavaspis	crypto	Howell & Tippins	2
Clavaspis	dentata	Ferris	1(1f)T
Clavaspis	disclusa	Ferris	1(2f)T
Clavaspis	herculeana	(Doane & Hadden)	6
Clavaspis	pedilanthi	(Ferris)	1(1f)T
Clavaspis	subfervens	(Green)	1
Clavaspis	texana	Ferris	1
Clavaspis	ulmi	(Johnson)	39
Comstockiella	sabalis	(Comstock)	2

Contigaspis	kochiae	Borchsenius	1
Contigaspis	monticola	Borchsenius	1
Cornuaspis	chinensis	(Chamberlin)	1
Crassaspidiotus	takahashii	Takagi	1(2f)T
Crassaspis	multipora	(Ferris)	1
Cupidaspis	beshearae	Howell & Tippins	3(3f)P
Cupidaspis	cupressi	(Coleman)	1
Cynodontaspis	piceae	Takagi	2
Dactylaspis	acuta	(Ferris)	1(1f)T
Dactylaspis	crotonis	(Cockerell)	1
Dactylaspis	dactylifera	Ferris	1(2f)T
Dactylaspis	serratiloba	Ferris	1(1f)T
Dentachionaspis	lounsburyi	(Leonardi)	1
Dentachionaspis	quadrispinosa	Munting	-
Dentachionaspis	ritchiei	(Laing)	1
Diaspidiotus	aesculi	(Johnson)	1
Diaspidiotus	africanus	(Marlatt)	1
Diaspidiotus	ancylus	(Putnam)	34
Diaspidiotus	bumeliae	Ferris	1(1f)T
Diaspidiotus	caryae	Kosztarab	5
Diaspidiotus	coniferarum	(Cockerell)	1
Diaspidiotus	crescentiae	(Ferris)	1(1f)T
Diaspidiotus	crystallinus	(Ferris)	1(1f)T
Diaspidiotus	ehrhorni	(Coleman)	1
Diaspidiotus	liquidambaris	(Kotinsky)	11
Diaspidiotus	loranthi	(Laing)	1
Diaspidiotus	mccombi	McKenzie	8
Diaspidiotus	naracola	Takagi	1
Diaspidiotus	osborni	(Newell & Cockerell)	44
Diaspidiotus	prunorum	(Laing)	1
Diaspidiotus	spiraspinae	Takagi	1(2f)T
Diaspidiotus	uvae	(Comstock)	33
Diaspidiotus	wuenni	(Lindigner)	2
Diaspidiotus	undetermined		11
Diaspis	aequalis	Munting	1(2f)T
Diaspis	boisduvalii	Signoret	28
Diaspis	bromeliae	(Kerner)	4
Diaspis	cocois	Lichtenstein	1
Diaspis	conocarpi	McKenzie	1(1f)T
Diaspis	dignus	Hoke	1
Diaspis	echinocacti	(Bouche)	22
Diaspis	manzanitae	(Whitney)	1
Diaspis	miranda	(Cockerell)	1
Diaspis	parasiti	McKenzie	1

Diaspis	simmondsiae	Ferris	1(1f)T	
Diaspis	undetermined			1
Diastolaspis	novata	Brimblecombe		1
Dinaspis	aculeata	Ferris		1
Discodiaspis	globosa	Munting	2(5f)T	
Duplachionaspis	asymmetrica	Ferris	1(1f)T	
Duplachionaspis	boquetensis	Ferris	1(2f)T	
Duplachionaspis	erianthi	Bochsenius		1
Duplachionaspis	graminis	(Green)		1
Duplachionaspis	litoralis	Ferris	1(2f)T	
Duplachionaspis	monodi	(Rungs)		1
Duplaspidiotus	carpellus	Brain		1
Duplaspidiotus	claviger	(Cockerell)		1
Duplaspidiotus	incisus	Ferris	1(1f)T	
Duplaspidiotus	tesseratus	(Grandpre & Charmoy)		7
Dynaspidiotus	britannicus	(Newstead)		= 2
Dynaspidiotus	regius	(Brain)		1
Entaspidiotus	lounsburyi	(Marlatt)		1
Epidiaspis	leperii	(Signoret)		5
Epidiaspis	montana	(Cockerell)		1
Epidiaspis	salicicola	Ferris		1
Eucleaspis	echinata	Munting		1
Eucornuaspis	kuwacula	(Kuwana)		1
Eulaingia	stenophyllae	(Laing)		1
Exuviaspis	enceliae	Ferris		1
Faureaspis	faurei	(Brain)		1
Ferrisidea	magna	(Ferris)	1(2f)T	
Fiorinia	externa	Ferris		8
Fiorinia	fioriniaef	(Targioni-Tozzetti)		10
Fiorinia	japonica	Kuwana		9
Fiorinia	pinicola	Maskell		1
Fiorinia	theae	Green		12
Fissuraspis	ulmi	(Hoke)		1
Formosaspis	pallida	Munting	2(2f)T	
Froggattiella	penicillata	(Green)		2

Furcaspis	biformis	(Cockerell)	6
Furchadaspis	zamiae	(Morgan)	1
Galeraspis	eugeniae	Mamet	6(16f)T
Genaparlatoria	pseudaspidiotus	(Lindinger)	1
Geodiaspis	arundinariae	Tippins & Howell	2(3f)TT
Gymnaspis	aechmeae	Newstead	1
Haliaspis	distichlii	(Ferris)	1(3f)T
Haliaspis	nakahari	Howell	3(3f)P
Haliaspis	spartinae	(Comstock)	2
Haliaspis	uniolae	Takagi	2
Hemiberlesia	candidula	(Cockerell)	1
Hemiberlesia	cupressi	(Cockerell)	1
Hemiberlesia	diffinis	(Newstead)	18
Hemiberlesia	ignobilis	Ferris	1
Hemiberlesia	lataniae	(Signoret)	100
Hemiberlesia	mitchelli	(Marlatt)	1
Hemiberlesia	palmae	(Cockerell)	5
Hemiberlesia	pitysophila	Takagi	1(2f)T
Hemiberlesia	popularum	(Marlatt)	2
Hemiberlesia	quercicola	(Ferris)	1(1f)T
Hemiberlesia	rapax	(Comstock)	8
Hemiberlesia	sinensis	Ferris	1(1f)T
Hemiberlesia	undetermined	:	7
Hemigymnaspis	brayi	Davidson & Miller	1(4f)P
Howardia	biclavis	(Comstock)	16
Hybridaspis	producta	Green	1(1f)T
Hypaspidiotus	jordani	(Kuwana)	2(3f)T
Insulaspis	corni	(Takagi)	1
Insulaspis	japonica	(Kuwana)	1
Insulaspis	kamakurensis	(Kuwana)	1
Ischnaspis	longirostris	(Signoret)	2
Japaspidiotus	cedricola	Takagi	1
Kuwanaspis	howardi	(Cooley)	1
Kuwanaspis	linearis	(Green)	3
Kuwanaspis	pseudoleucaspis	(Kuwana)	1
Kuwanaspis	vermiformis	(Takagi)	1
Kuwanaspis	undetermined		1
Lapazia	obscura	Howell & Beshear	2(2f)P

Ledaspis	distincta	(Leonardi)	1
Lepidosaphes	beckii	(Newman)	13
Lepidosaphes	buzenensis	Kuwana	1
Lepidosaphes	camelliae	Hoke	9
Lepidosaphes	celtis	Kuwana	1
Lepidosaphes	conchiformioides	Borchsenius	1
Lepidosaphes	conchiformis	(Gmelin)	2
Lepidosaphes	destefanii	Leonardi	1
Lepidosaphes	gloverii	(Packard)	2
Lepidosaphes	kirgisica	Borchsenius	1
Lepidosaphes	machili	(Maskell)	3
Lepidosaphes	mackieana	McKenzie	1(1f)P
Lepidosaphes	marginata	Ferris	11(13f)TT
Lepidosaphes	newsteadi	Sulc	6
Lepidosaphes	noxia	McKenzie	1(1f)T
Lepidosaphes	pallida	(Maskell)	4
Lepidosaphes	pini	(Maskell)	2
Lepidosaphes	salicina	Borchsenius	1
Lepidosaphes	sciadopitysi	McKenzie	11
Lepidosaphes	tokionis	(Kuwana)	2
Lepidosaphes	ulmi	(Linnaeus)	200
Lepidosaphes	yanagicola	Kuwana	15
Lepidosaphes	undetermined		7
Leucaspis	pini	(Hartig)	2
Leucaspis	portaeaureae	Ferris	1
Leucaspis	pusilla	Low	4
Leucaspis	riccae	Targioni-Tozzetti	1
Leucaspis	undetermined		3
Lindingaspis	equipora	Munting	1(1f)T
Lindingaspis	ferrisi	McKenzie	1
Lindingaspis	floridana	Ferris	1(1f)T
Lindingaspis	fusca	McKenzie	1(1f)T
Lindingaspis	greeni	(Brain & Kelly)	1
Lindingaspis	optima	(Silvestri)	1
Lindingaspis	piceus	(Malenotti)	1
Lindingaspis	rossi	(Maskell)	4
Lindingaspis	setiger	(Maskell)	2(2f)T
=Aspidiotus	kelloggi	Kuwana	
Lindingaspis	tingi	McKenzie	1
Lineaspis	junipericola	Borchsenius	1
Lineaspis	striata	(Newstead)	1
Lineaspis	thelophora	Borchsenius	1(1f)T
Lopholeucaspis	japonica	(Cockerell)	54
Lopholeucaspis	menoni	Borchsenius	1
Lopholeucaspis	undetermined		8
Malleolaspis	mammata	Ferris	1
Malleolaspis	sculpta	Ferris	1(1f)T

Mancaspis	<i>lunata</i>	Ferris	1(2f)T
Mancaspis	<i>piriformis</i>	Ferris	1(2f)T
Melanaspis	<i>aliena</i>	(Newstead)	1
Melanaspis	<i>bromeliae</i>	(Leonardi)	1
Melanaspis	<i>corticosa</i>	(Brain)	1
Melanaspis	<i>deliquescens</i>	Ferris	1(1f)T
Melanaspis	<i>elaeagni</i>	McKenzie	1(1f)T
Melanaspis	<i>glomerata</i>	(Green)	1
Melanaspis	<i>inopinata</i>	(Leonardi)	1
Melanaspis	<i>jamaicensis</i>	Davidson	1
Melanaspis	<i>lilacina</i>	(Cockerell)	1
Melanaspis	<i>nigropunctata</i>	(Cockerell)	3
Melanaspis	<i>obscura</i>	(Comstock)	107
Melanaspis	<i>odontoglossi</i>	(Cockerell)	1
Melanaspis	<i>paulista</i>	(Hempel)	1
Melanaspis	<i>pedina</i>	Munting	1(1f)T
Melanaspis	<i>ponderosa</i>	Ferris	5(5f)T
Melanaspis	<i>smilacis</i>	(Comstock)	3
Melanaspis	<i>squamea</i>	Ferris	1(1f)T
Melanaspis	<i>tenax</i>	McKenzie	1(2f)T
Melanaspis	<i>tenebricosa</i>	(Comstock)	41
Melanaspis	undetermined		9
Microparlatoria	<i>fici</i>	(Takahashi)	1
Mitraspis	<i>heresiarcha</i>	Ferris	1(1f)T
Mixaspis	<i>bambusicola</i>	(Takahashi)	12(23f)T
Mohelnaspis	<i>massiliensis</i>	(Goux)	5
Mohelnaspis	<i>moravica</i>	Sulc	11(23f)T
Moraspis	<i>euphorbiae</i>	(Brain)	1
Morganella	<i>cueroensis</i>	(Cockerell)	1
Morganella	<i>longispina</i>	(Morgan)	1
Mycetaspis	<i>apicata</i>	(Newstead)	1
Mycetaspis	<i>juventinae</i>	Lepage & Giannotti	1(1f)TT
Mycetaspis	<i>personata</i>	(Comstock)	1
Mycetaspis	<i>sphaeroides</i>	(Cockerell)	1
Namibia	<i>spinosa</i>	Munting	1
Neomorgania	<i>eucalypti</i>	(Maskell)	1
Neoparlatoria	<i>formosana</i>	Takahashi	1
Neopinnaspis	<i>harperi</i>	McKenzie	1
Neoselenaspidus	<i>silvaticus</i>	(Lindinger)	1

Nicholiella	bumeliae	Ferris	2(4f)T
Nicholiella	digitata	Ferris	1(2f)T
Nilotaspis	halimodendronis	Borchsenius & Matesova	1
Nilotaspis	halli	(Green)	1
Nilotaspis	isis	(Hall)	1(1f)T
Niveaspis	cattleyae	LePage	1
Niveaspis	fenestrata	Ferris	9(12)T
Niveaspis	gracilis	Ferris	1(2f)T
Niveaspis	ilicis	(Hoke)	1
Niveaspis	tenuis	Ferris	1(2f)T
Niveaspis	vulcania	Ferris	9(14f)T
Nuculaspis	abietis	(Schrink)	5
Nuculaspis	californica	(Coleman)	4
Nuculaspis	pseudomeyeri	(Kuwana)	1
Octaspidiotus	araucariae	Adachi & Fullaway	1
Octaspidiotus	subrubescens	(Maskell)	1
Odonaspis	greeni	(Cockerell)	6
Odonaspis	lingnani	Ferris	1(2f)T
Odonaspis	litorosa	Ferris	11(20f)T
Odonaspis	minima	Howell & Tippins	2(2f)P
Odonaspis	ruthae	Kotinsky	11
Odonaspis	saccharicaulis	Zehntner	3
Odonaspis	secreta	(Cockerell)	2
Odonaspis	shizostachyi	Cockerell & Robinson	5(7f)P
Odonaspis	undetermined		5
Opuntiaspis	carinata	(Cockerell)	2
Opuntiaspis	philococcus	(Cockerell)	1
Palinaspis	quohogiformis	(Merrill)	1
Pallulaspis	ephedrae	Ferris	1(2f)T
Pallulaspis	retamae	(Hall)	1(1f)T
Paracupidaspis	wilkeyi	Howell & Tippins	2(2f)P
Parainsulaspis	bladhiae	(Takahashi)	1
Parainsulaspis	esakii	(Takahashi)	1
Parainsulaspis	euryae	(Kuwana)	3(3f)P
Parainsulaspis	glaucae	(Takahashi)	1
Parainsulaspis	piniphila	(Borchsenius)	3
Parainsulaspis	smilacis	(Takagi)	1(1f)P
Paraonidiella	cladii	(Maskell)	1
Parlatoreopsis	longispinus	(Newstead)	1
Parlatoria	blanchardi	(Targioni)	2
Parlatoria	boycei	McKenzie	1(2f)P

Parlatoria	camelliae	Comstock	8
Parlatoria	cinerea	Doane & Hadden	6
Parlatoria	citri	McKenzie	1
Parlatoria	crypta	McKenzie	1
Parlatoria	cupressi	Ferris	1(1f)T
Parlatoria	fluggeae	Hall	1
Parlatoria	morrisoni	McKenzie	1(1f)P
Parlatoria	oleae	(Colvee)	4
Parlatoria	olgae	Borchsenius	2(4f)T
Parlatoria	pergandii	Comstock	7
Parlatoria	piceae	Takagi	1
Parlatoria	pittospori	Maskell	1
Parlatoria	proteus	(Curtis)	5
Parlatoria	theae	Cockerell	12
Parlatoria	vandae	McKenzie	1(1f)T
Parlatoria	yunnanensis	Ferris	1(1f)T
Parlatoria	ziziphus	(Lucas)	2
Pelliculaspis	durapyga	Ferris	1(1f)T
Phaulaspis	hakeae	(Maskell)	1
Phenacaspis	eugeniae	(Maskell)	2
Phenacaspis	inday	(Banks)	1
Phenacaspis	pellucida	Robinson	1(1f)T
Phenacaspis	trochodendri	Takahashi	1
Pinnaspis	aspidistrae	(Signoret)	7
Pinnaspis	buxi	(Bouche)	3
Pinnaspis	indivisa	Ferris	1(2f)T
Pinnaspis	strachani	(Cooley)	13
Pinnaspis	uniloba	(Kuwana)	1
Pinnaspis	undetermined		4
Pinomytilus	pseudotsugae	(Takahashi)	1
Platycoccus	tylocephalus	Stickney	1
Poliaspis	cycadis	Comstock	1
Praecocaspis	diversa	Ferris	1(1f)T
Prodigiaspis	septunx	Ferris	1(2f)T
Protargonia	larreae	Leonardi	1
Protodiaspis	agrifoliae	Essig	1
Protodiaspis	cinchonae	McKenzie	1(1f)P
Protodiaspis	colimae	Ferris	1(2f)T
Protodiaspis	emoryi	Ferris	1(1f)T
Protodiaspis	infidelis	Ferris	1
Protodiaspis	lagunae	Ferris	1(1f)T
Protodiaspis	praetexta	Ferris	1(2f)T
Protodiaspis	signata	Ferris	1(1f)T

Pseudaonidia	cingulata	(Froggatt)	1
Pseudaonidia	duplex	(Cockerell)	5
Pseudaonidia	paeoniae	(Cockerell)	33
Pseudaonidia	trilobitiformis	(Green)	3
Pseudaulacaspis	cockerelli	(Cooley)	12
Pseudaulacaspis	major	(Cockerell)	1
Pseudaulacaspis	pentagona	(Targioni-Tozzetti)	115
Pseudaulacaspis	prunicola	Maskell	111
Pseudaulacaspis	takahashi	Ferris	1
Pseudischnaspis	bowreyi	(Cockerell)	1
Pseudischnaspis	longissima	(Cockerell)	1
Pseudodiaspis	elaphrii	Ferris	2(2f)T
Pseudodiaspis	prosopidis	Ferris	1(1f)T
Pseudoleucaspis	monticola	Mamet	1(1f)T
Pseudoparlatoria	elongata	Ferris	1(1f)T
Pseudoparlatoria	fusca	Ferris	1(1f)T
Pseudoparlatoria	lentigo	Ferris	1(1f)T
Pseudoparlatoria	maculata	Ferris	1(1f)T
Pseudoparlatoria	memorabilis	Ferris	1(1f)T
Pseudoparlatoria	ostreata	(Cockerell)	1
Pseudoparlatoria	parlatorioides	Comstock	1
Pseudoparlatoria	perparvula	Ferris	1(1f)T
Pseudoparlatoria	serrulata	Townsend & Cockerell	1
Pseudoparlatoria	tillandsiae	Tippins	1
Pseudotargionia	comata	(Maskell)	1
Pseudotargionia	damara	Munting	1(1f)T
Pseudotargionia	glandulosa	(Newstead)	1
Pseudotargionia	kalaharica	Munting	1(1f)T
Pudaspid	newsteadi	(Leonardi)	1
Queraspidiotus	forbesi	(Johnson)	47
Queraspidiotus	gigas	(Thiem & Gerneck)	4
Queraspidiotus	juglansregiae	(Comstock)	80
Queraspidiotus	labiatarum	(Marchal)	4
Queraspidiotus	lenticularis	(Lindinger)	2
Queraspidiotus	macroporanus	Takagi	1(5f)T
Queraspidiotus	marani	Zahradnik	2
Queraspidiotus	ostreaeformis	(Curtis)	18
Queraspidiotus	paraphyses	Takagi	1(3f)T
Queraspidiotus	perniciosus	(Comstock)	52
Queraspidiotus	pyri	(Lichtenstein)	1
Queraspidiotus	taxodii	Ferris	6
Queraspidiotus	zonatus	(Frauenfeld)	2
Queraspidiotus	undetermined		8
Quernaspis	insularis	Howell	5(5f)P

Quernaspis	quercicola	Tippins & Beshear	1
Quernaspis	quercus	(Comstock)	1
Radionaspis	indica	(Marlatt)	1
Rhizaspidiotus	albatus	Borchsenius	1
Rhizaspidiotus	artemisiae	(Hall)	1
Rhizaspidiotus	dearnassi	(Cockerell)	1
Rhizaspidiotus	donacis	(Leonardi)	1(2f)T
Rhizaspidiotus	graminis	Borchsenius	1
Rhizaspidiotus	povlaskii	Borchsenius	1
Rolaspis	carissae	(Cockerell)	1
Rolaspis	euryopis	Williams	1(1f)T
Rolaspis	incisa	Munting	1(1f)P
Rolaspis	lounsburyi	(Cooley)	1
Rolaspis	spiculata	(Hall)	1
Rugaspidiotinus	fuscitatis	(Ferris)	1(2f)T
Rugaspidiotus	arizonicus	(Cockerell)	2
Rugaspidiotus	nebulosus	Ferris	10(21f)T
Rugaspidiotus	sculpturatus	Ferris	1(1f)T
Rungaspis	arcuata	Munting	1(2f)T
Salicicola	kermanensis	(Lindinger)	1
Schizaspis	lobata	Cockerell & Robinson	1(1f)T
Selenaspidopsis	browni	Nakahara	1(1f)P
Selenaspidus	albus	McKenzie	1(1f)T
Selenaspidus	articulatus	(Morgan)	12
Selenaspidus	griqua	(Brain)	1
Selenaspidus	latus	Munting	1(1f)T
Selenaspidus	pertusus	Brain	1
Selenaspidus	rubidus	McKenzie	1(1f)P
Selenomphalus	euryae	(Takahashi)	1
Separaspis	capensis	(Walker)	1
Situlaspis	atriplicis	(Ferris)	1(1f)T
Situlaspis	daleae	Ferris	1
Situlaspis	ruelliae	(Ferris)	11(21f)T
Situlaspis	yuccae	(Cockerell)	1
Spinaspidiotus	fissidens	(Lindinger)	1
Stramenaspis	kelloggi	(Coleman)	1
Syngenaspis	parlatoriae	Sulc	11(23f)T

Targionia	<i>bigeloviae</i>	(Cockerell)	1
Targionia	<i>vitis</i>	Signoret	2
Targionia	<i>yuccarum</i>	(Cockerell)	1
Tecaspis	<i>angularis</i>	Munting	1(2f)T
Thysanaspis	<i>acalyptus</i>	Ferris	1(1f)T
Thysanofiorinia	<i>nephelii</i>	(Maskell)	1
Unachionaspis	<i>tenuis</i>	(Maskell)	1
Unaspis	<i>citri</i>	(Comstock)	6
Unaspis	<i>euonymi</i>	(Comstock)	91
Unaspis	<i>yanonensis</i>	(Kuwana)	1
Unaspis	undetermined		10
Velataspis	<i>cornigera</i>	Ferris	8(12f)T
Velataspis	<i>dentata</i>	(Hoke)	2
Velataspis	<i>mimosarum</i>	(Cockerell)	1
Versiculaspis	<i>agathosmae</i>	Munting	1(1f)P
Vinculaspis	<i>inclusa</i>	(Ferris)	1(1f)T
Vinculaspis	<i>laniata</i>	(Ferris)	1(1f)T
Vinculaspis	<i>virgata</i>	(Ferris)	1(1f)T
Xanthophthalma	<i>concinnum</i>	Cockerell & Parrott	5
Xerophilaspis	<i>prosopidis</i>	Cockerell	3
Yomaspis	<i>ventropora</i>	(Munting)	1

RECENT LITERATURE

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I wish again to express my sincere appreciation to Mrs. Helen Proctor for preparing the first draft of this list of publications.

The following publications are those received since the last "Scale" was sent out in December 1984. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1984-1985 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the "Scale".

ABSTRACTS OF PAPERS PRESENTED AT THE 1ST CONF ON AGRIC ENTOMOL, Feb 7-8, 1983, BET DAGAN, ISRAEL. PHYTOPARASITICA 11(2): 117-141

AGARWAL, M. M.; AGARWAL, S.; KHAN, M. A. 1984

SOME NEW CHALCID PARASITES (HYMENOPTERA: ENCYRTIDAE) RECORDED FROM INDIA.
J ENTOM RES 8(1): 61-69

AKOPYAN, L. A.; MAGAKYAN, YU A. 1984

THE OOCENESIS OF THE ARARAT COCHINEAL 5. CHANGES IN TROPHOCYTE ULTRASTRUCTURE DURING THE FOLLICULAR PERIOD OF OVARIOLE DEVELOPMENT.
TSITOLOGIYA 26(12): 1391-1395. RU

ALAYO, R.; BLAHUTIAK, A. 1981

ASPECTOS BIOLOGICOS Y TAXONOMICOS EN SAISSETIA HEMISPHAERICA TARGIONI.
POEYANA 220: 1-18 SP EN

ALEXANDRAKIS, V. 1983

BIOLOGICAL DATA ON AONIDIELLA AURANTII MASK (HOMOPTERA, DIASPIDIDAE) ON CITRUS IN CRETE. FRUITS 38(12): 831-838, 869-872 FR EN GR RU

ALFORD, D. V. 1985

CHEMICAL CONTROL OF WOOLLY CURRANT SCALE ON BLACK CURRANT. AN APPL BIOL 106: SUPPLEMENT

ANAND, N. 1983

THE MARKET FOR ANNATTO AND OTHER NATURAL COLOURING MATERIALS, WITH SPECIAL REFERENCE TO THE UNITED KINGDOM. REPORT, TROPICAL DEV AND RES INST, UK G174 EN FR

ANON. 1985

LINDCOVE AT 25 REGIONAL APPROACH TO PEST MANAGEMENT. CITROGRAPH 70(6): 131

ARGYRIOU, L. C.; MOURIKIS, P. A.; MATSUMOTO, K. 1983

CURRENT STATUS OF CITRUS PESTS IN GREECE. PROC INT SOC CITRICULTURE 1981 2: 623-627

ARZONE, A. 1983

PSEUDOCOCCUS OBSCURUS ESSIG AND CRYPTOLAEMUS MONTROUZIERI MULS IN TURIN.
ATTI XIII CONGRESSO NAZIONALE ITALIANO DI ENTOMOLOGIA, TURIN ITALY,
UNIVERSITA DI TORINO: 448-452 IT EN

- AVASTHI, R. K.; SHAFEE, S. A. 1983
 PARACOCCUS NEW RECORD HOMOPTERA PSEUDOCOCCIDAE FROM INDIA WITH DESCRIPTION OF A NEW SPECIES. J BOMBAY NAT HIST SOC 80(2): 398-402
- AVASTHI, R. K.; SHAFEE, S. A. 1983
 FIRST RECORD OF PARACOCCUS EZZAT AND MCCONNELL (HOMOPTERA: PSEUDOCOCCIDAE) FROM INDIA WITH DESCRIPTION OF A NEW SPECIES. J BOMBAY NAT HIST SOC 80(2): 398-402
- AVIDZHBA, N. SH.; SEM'YANOV, V. P. 1981
 COMPARATIVE EFFECTIVENESS OF SOME ORGANOPHOSPHORUS PREPARATIONS IN CITRUS PLANTATIONS. NOVEISHIE DOSTIZHENIYA SEL SKOKHOZYAISTVENNOI ENTOMOLOGII: 4-6 RU
- AVIDZBA, N. S. 1983
 BIOECOLOGY OF CITRUS WHITEFLY AND ITS INTEGRATED MANAGEMENT. 10TH INT CONG PLANT PROT, VOL 3.
- AVIDZBA, N. S. 1984
 EFFECT OF INSECTICIDES ON LEMON TREES. SUBTROP KUL'T 5: 111-114 RU
- AYANRU, D. K. G.; SHARMA, V. C. 1984
 CHANGES IN TOTAL CYANIDE CONTENT OF TISSUES FROM CASSAVA PLANTS INFESTED BY MITES (MONONYCHELLUS TANAJOA) AND MEALYBUGS (PHENACOCCUS MANIHOTI). AGRIC., ECOSYST., ENVIRON 12(1): 35-46
- BACESCU, M. 1982
 CUMACEA FROM THE SEA OF MARMARA AND THE AEGEAN EUBOEA ISLAND. TRAV MUS HIST NAT 'GRIGORE ANTIPA' 24: 45-54 FR
- BAECKSTROM, P.; BJORKLING, F.; HOGBERG, H. E.; NORIN, T. 1984
 CROSS COUPLING OF VINYL CUPRATES AND ALLYLIC HALIDES AND SYNTHESIS OF THE COMSTOCK MEALYBUG PHEROMONE VIA PHOTOOXIDATION OF 2,6 DIMETHYL-2,5-HEPTADIENE. ACTA CHEM SCAND SER B ORG CHEM BIOCHEM 38(9): 779-782.
- BAJOI, A. H. 1983
 BIONOMICS AND CONTROL OF COCCIDS IN BALUCHISTAN: FINAL TECHNICAL REPORT, JAN 1978 - JAN 1983.
- BARNARD, P. C.; BROOKS, S. J. 1984
 THE AFRICAN LACEWING GENUS CERATOCHRYSA (NEUROPTERA: CHRYSOPIDAE): A PREDATOR ON THE CASSAVA MEALYBUG, PHENACOCCUS MANIHOTI (HEMIPTERA; PSEUDOCOCCIDAE). SYSTEM ENTOMOL 9(4): 359-371
- BARSEGYAN, A. M.; ZIROYAN, A. N.; KOCHARYAN, N. I. 1984
 SOME ECOLOGICAL BIOLOGICAL CHARACTERISTICS AND CHEMICAL COMPOSITION OF ARARATIAN COCHINEAL FODDER PLANTS. BIOL ZH ARM 37(9): 757-761 RU
- BARUA, G. C. S. 1983.
 FUNGI IN BIOLOGICAL CONTROL OF TEA PEST AND DISEASE IN NORTH-EAST INDIA. TWO AND A BUD 30(1/2): 5-7
- BASOVA, T. V. 1983
 SCUTELLISTA CYANEA - A NATURAL ENEMY OF SOFT SCALES. ZASHCHITA RASTENII 1: 30-31 RU

- BASOVA, T. F.; KRAVCHENKO, M. A. 1984
BIOLOGICAL CONTROL OF SOFT SCALES. ZASCHITA RASTENII 10: 40-41 RU
- BEIRNE, B. P.; GLENDENNING, R.; SUGONJAEV, E. S. 1984
BIOLOGICAL CONTROL OF THE EUROPEAN FRUIT LECANIUM, LECANIUM TILIAE
(HOMOPTERA: COCCIDAE) IN BRITISH COLUMBIA. J ENTOM SOC BRITISH COLUMBIA
81: 28
- BENASSY, C.; BIANCHI, H.; EINHORN, J. 1983
THE MULBERRY SCALE IN PEACH ORCHARDS: NEW PROSPECTS OF CONTROL. PHYTOMA
351: 28-30
- BERLINGER, M. J.; DAHAN, R.; BEN-DOV, Y.; COHEN, M. 1984
THE PHENOLOGY, DISTRIBUTION AND CONTROL OF THE HALL SCALE, NILOTASPIS
HALLI (GREEN)(HOMOPTERA: DIASPIDIDAE) IN ISRAEL. HASSADEH 64(4): 722-725
HE EN
- BHAT, P. K.; CHACKO, M. J.; SREEDHARAN, K.: VENKATA RAM, C. S.; RAM, C. S. F.
VEKDATA 1983(1979)
PROC SECOND ANNUAL SYMP PLANTATION CROPS, PLANT PROTECTION 221-226
- BHATNAGAR, V. S. 1984
BIOLOGICAL CONTROL PROGRAMME, NIORO DU RIP LABORATORY, REPORT OF
ACTIVITY. SENEGAL, INST SENEGALAIS DE RECHERCHES AGRICOLES. 78 PP FR
- BHATNAGAR, V. S.; JADHAV, D. R.; PAWAR, C. S. 1984
PARASITES OF A PIGEONPEA MEALY BUG, CEROPLASTODES CAJANI MASK. INT
PIGEONPEA NEWSLETTER 3: 45
- BICHINA, T. I.; KOVALEV, B. G.; SMETNIK, A. I.; VAGANOVA, L. D. 1982
AN EXPERIMENT IN USING PHEROMONES OF THE COMSTOCK MEALYBUG. ZASHCHITA
RAST 10: 46 RU
- BICHINA, T. I.; ROTAR, M. B.; ROZINSKAYA, E. M. 1984
THE EFFECT OF LIGHT AND TRAP CONSTRUCTION ON CATCHES OF COCCIDS.
ZASHCHITA RASTENII 8: 38 RU
- BISESSAR, S.; MC LAUGHLIN, D. L.; LINZON, S. N. 1985
THE 1ST OCCURRENCE OF THE BEECH SCALE INSECT CRYPTOCOCCUS FAGISUGA ON
AMERICAN BEECH FAGUS GRANDIFOLIA TREES IN ONTARIO CANADA. J ARBORIC
11(1): 13-14
- BLUMBERG, D.; SWIRSKI, E. 1984
RESPONSE OF THREE SOFT SCALES (HOMOPTERA: COCCIDAE) TO PARASITIZATION BY
METAPHYCUS SWIRSKII. PHYTOPARASITICA 12(1): 29-35
- BORATYNSKI, K., PANCER-KOTEJA, E; KOTEJA, J. 1982
THE LIFE HISTORY OF LECANOPSIS FORMICARUM NEWSTEAD/HOMOPTERA, COCCINAE.
ANN ZOOLWARSZAWA 36: 517-537
- BURTS, E. C.; HILL, W. B.; RETAN, A. H. 1984
GRAPE MEALYBUG IN PEARS. EXT BULL WASHINGTON ST. U.
- BUTANI, D. K.; DADLANI, N. K. 1983
PESTS OF ORNAMENTAL PLANTS IN INDIA AND THEIR CONTROL. PESTICIDES 17(3):
18-20, 25

- CADAHIA, D. 1982
 PALAEOCOCCUS FUSCIPENNIS BURM. HOMOPTERA, MARGARODIDAE, A PEST OF COASTAL PINE STANDS IN HUELVA. BOLETIN DEL SERVICIO DE DEFENSE CONTRA PLAGAS E INSPECCTION FITOPATOLOGICA 8(2): 201-214 ES EN
- CADAHIA, D. 1984
 THE BIOLOGICAL INTEREST OF THE GENUS CRYPTOCHAETUM ROND. DIPTERA, CRYPTOCHAETIDAE AND DESCRIPTION OF A NEW SPECIES. BOL DEL SERVICIO DE DEFENSE CONTRA PLAGAS E INSPECCION FITOPATHOLOGICA 10(2): 159-184
- CARMONA, M. M.; DE SOUSA PITA, M.; DA SILVA VIEIRA, R. M. 1980
 BOL SOC PORT ENT 7: 24-25 PORTUGESE
- CARROLL, D. P.; LUCK, R. F. 1984
 BIONOMICS OF CALIFORNIA RED SCALE, AONIDIELLA AURANTII (MASKELL) (HOMOPTERA: DIASPIDIDAE), ON ORANGE FRUITS, LEAVES, AND WOOD IN CALIFORNIA'S SAN JOAQUIN VALLEY. ENVIRON ENT 13(3): 847-853
- CHACKO, M. J.; DEEPAK SINGH, M. B.; RAO, L. V. A.: RAMANARAYAN, E. P.: VENKATA RAM, C. S.; RAM, C. S. 1983(1979)
 PROC SECOND ANNUAL SYMPOSIUM PLANTATION CROPS, PLANT PROTECTION 504-509
- CHACKO, M. J.; DEEPAK SINGH, M. B.; VENKATA RAM, C. S.; RAM, C. S. 1983
 EFFECT OF REPEATED APPLICATIONS OF FENTHION ON LARVAL STAGES OF COCCOPHAGUS COWPERI, A PARASITE OF COCCUS VIRIDIS ON COFFEE. PROC SECOND ANNUAL SYMP ON PLANTATION CROPS. 294-297.
- CHACKO, M. J.; RAMANARAYAN, E. P.; VENKATA RAM, C. S.; RAM, C. S. 1983(1979)
 COMPATABILITY AND BIOEFFICACY OF NUVACRON, PHENDAL, ROGOR AND SUMITHION WITH BORDEAUX MIXTURE. PROC SECOND ANNUAL SYMPOSIUM PLANTATION CROPS 455-460
- CHOWDHURY, S. H.; ULLAH, G. M. R. 1984
 COCCOIDES AND THEIR HOST PLANTS IN BANGLADESH, A CHECKLIST (HOMOPTERA: COCCOIDEA). BANGLADESH J OF ZOOL 12(1): 39-45
- CHOWDHURY, S. H.; ULLAH, G. M. R. 1984
 2 SPECIES OF RASTROCoccus FROM BANGLADESH. BANGLADESH J ZOOL 12(2): 121-124.
- COMMONWEALTH INST OF ENT. 1983
 DISTRIBUTION MAPS OF PESTS, NOS 451-457 AND 230 COMMONWEALTH AGRIC BUR
- COMMONWEALTH INST OF ENT. 1984
 DISTRIBUTION MAPS OF PESTS, NOS 464-467 AND 44 COMMONWEALTH AGRIC BUR, FARNHAM ROYAL
- CRESTANA, M. DE S.: PRATES, H. S. 1982
 OCCURRENCE OF ICERYA BRASILIENSIS HEMPEL, 1900 (HOMOPTERA, MARGARODIDAE) ON ORNAMENTAL PLANTS. PROC TROP REG AM SOC HORTIC SCI ANNU MEET 25: 217
- DANZIG, E. M.; KERZHNER, I. M. 1984
 LEUCASPIS INSECTA HOMOPTERA DIASPIDIDAE PROPOSED CONSERVATION BY THE SUPPRESSION OF LEUCASPIS INSECTA HYMENOPTERA LEUCOSPIDAE. BULL ZOOL NOMENCL 41(2): 101-104

- DANZIG, E. M. 1984
NEW AND LITTLE KNOWN SPECIES OF SCALE INSECTS (HOMOPTERA, COCCINEA) IN THE FAUNA OF THE USSR. ENTOMOL REV 62(3): 68-78 EN RU
- DARLING, D. C.; JOHNSON, N. F. 1984
SYNOPSIS OF NEARCTIC AZOTINAEE HYMENOPTERA APHELINIDAE. PROC ENTOMOL SOC WASH 86(3): 555-562
- DAVIDSON, J. A.; MILLER, D. R.; NAKAHARA, S. 1983
THE WHITE PEACH SCALE PSEUDAULACASPIS PENTAGONA. EVIDENCE THAT CURRENT CONCEPTS INCLUDE 2 SPECIES. PROC ENTOMOL SOC WASH 85(4): 753-761
- DE BELAIR, G.; CHESSEL, D.; BENCHIKH-LEHOCINE, M. 1984
SPATIAL STRUCTURE AND DYNAMIC STATUS IN A PLANT COMMUNITY EXAMPLE OF DUNE KERMES OAK SHRUBS ANNABA ALGERIA. ECOL METITERR 10(102): 261-270 FR
- DE CROUZEL, I. S.; MERLUZZI, E. G. 1980
BIOLOGICAL OBSERVATIONS ON THE PARASITE APHYTIS NR LINGNANENSIS COMPERE (HYM. APHELINIDAE) Y SU HUESPOD UNASPIS CITRI (COMSTOCK)(HOM., DIASPIDIDAE). REVISTA SOC ENT ARGENT 39(1-2): 89-100
- DE KLERK, C. A.; BEN-DOV, Y.; GILIOME, J. H. 1982
REDESCRIPTIONS OF THREE MARGARODES GUILDING SPECIES (HOMOPTERA: COCCOIDEA: MARGARODIDAE) FOUND ON GRASSES IN SOUTH AFRICA. PHYTOPHYLACTICA 14(2): 77-83 EN AF
- DELFIION, G.; ORTU, S.; PROTO, R. 1982
PLANT-FEEDING INSECTS RECENTLY INTRODUCED INTO CITRUS CULTURES OF SARDINIA. STUDI SASSARESI 28: 57-64
- DOPP, H. 1984
A FIND WITH PAINFUL RESULTS (GYMNOCALCIUM BALDIANUM WITH SCALE INSECTS). KAKTEEN UND ANDERE SUKKULENTEN 35(1): 21 GE
- DUNCAN, R. W. 1983
COMMON INSECTS DAMAGING JUNIPERS, CEDARS AND CYPRESS IN BRITISH COLUMBIA. PEST LEAFLET, PAC FOREST RES CENTRE, CANADA FPL 70, 11 PP
- EDMUND, G. J., JR.; ALSTAD, D. N. 1984
HIGH SUMMER MORTALITY OF BLACK PINELEAF SCALE HOMOPTERA DIASPIDIDAE. PAN PAC ENTOMOL 60(4): 267-268
- EDMUND, G. F.; ALSTAD, D. N. 1985
MALATHION-INDUCED SEX RATIO CHANGES IN BLACK PINELEAF SCALE (HEMIPTERA: DIASPIDIDAE). ANN. ENTOMOL. SOC. AM. 78(3): 403-5
- EHLER, L. E.; ENDICOTT, P. C. 1984
EFFECT OF MALATHION-BAIT SPRAYS ON BIOLOGICAL CONTROL OF INSECT PESTS OF OLIVE, CITRUS, AND WALNUT. HILGARDIA 52(5): 1-47
- ELMER, H. S.; MATSUMOTO, K. 1981
INFLUENCE OF PESTICIDES ON NONTARGET CITRUS PESTS IN CALIFORNIA'S CENTRAL VALLEY. PROC INT SOC CITRICULTURE 1981, 2: 675-676
- EMMS, L. M.; MCLAREN, G. F. 1984
SAN JOSE SCALE QUADRASPIDIOTUS PERNICIOSUS COMSTOCK HOMOPTERA DIASPIDIDAE IN CENTRAL OTAGO NEW ZEALAND. N Z ENTOMOL 8: 81-82

EUROPEAN MEDITERRANEAN PLANT PROTECTION ORGANIZATION. 1984
GUIDELINE FOR THE BIOLOGICAL EVALUATION OF INSECTICIDES SCALES ON CITRUS.
BULL OEPP. 14(2): 273-278 EN FR

FIDALGO, A. P. 1983

PARASITOIDS AND PREDATORS OF MELANASPIS PAULISTUS IN THE NORTH OF ARGENTINA. ACTA ZOOL LILLOANA 37(1): 119-126 SP

FISHER, D. B.; FRAME, J. M. 1984

A GUIDE TO THE USE OF THE EXUDING STYLET TECHNIQUE IN PHLOEM PHYSIOLOGY. PLANTA 161(5): 385-393

FLUCKIGER, W.; BRAUN, S.; FLUCKIGER-KELLER, H. 1985

STUDIES ON FOREST DAMAGE IN NORTHWEST SWITZERLAND. SCHWEIZERISCHE ZEITSCHRIFT FUR FORSTWESEN 135(5): 389-444

FOLDI, I.; CASSIER, P. 1985

COMPARATIVE ULTRASTRUCTURE OF THE TEGUMENTARY GLANDS OF 13 FAMILIES OF COCHINEALS HOMOPTERA COCCOIDEA. INT J INSECT MORPHOL EMBRYOL 14(1): 33-50 FR

FURTH, D. G.; BEN-DOV, Y.; GERSON, U. 1983

PELIOCOCCUS-DESERTICOLA NEW-SPECIES HOMOPTERA PSEUDOCOCCIDAE FROM THE JUDEAN DESERT ISRAEL. ISR J ENTOMOL 17: 105-108

FURUHASHI, K.; NISHINO, M. 1983

BIOLOGICAL CONTROL OF ARROWHEAD SCALE, UNASPIS YANONENSIS, BY PARASITIC WASPS INTRODUCED FROM THE PEOPLE'S REPUBLIC OF CHINA. ENTOMOPHAGA 28(3): 277-286. EN FR (SUMM)

FYTIZAS, E.; KATSOYANNOS, P. 1983

PHENOMENA OF HOMOEOSTASIS IN LARVAE, PUPAE AND ADULTS OF RHIZOBIA FORESTIERI. MEDEDELINGEN VAN DE FACULTEIT LANDBOUWWETENSCHAPPEN, RIJKSUNIVERSITEIT GENT 48:2, 273-279 FR

GABRIEL, D. 1983

SURVEY OF THE OCCURRENCE OF THE SCALE INSECT ANTONINA GRAMINIS (MASKELL, 1897) (HOMOPTERA: PSEUDOCOCCIDAE) AND OF ITS PARASITES IN AREAS OF PASTURE IN SAO PAULO STATE. II. BIOLOGICO 49(3): 53-64

GABRIEL, D. 1983

SURVEY OF THE OCCURRENCE OF THE SCALE INSECT ANTONINA GRAMINIS (MASKELL, 1897) (HOMOPTERA: PSEUDOCOCCIDAE) AND OF ITS PARASITES IN AREAS OF PASTURE IN SAO PAULO STATE, III. BIOLOGICO 49(8): 207-218 PT EN

GAONI, Y. 1982

CONJUGATE ADDITION OF ORGANOCOPPER REAGENTS TO 1-ARYLSULFONYL-BICYCLOCUBANES, SYNTHESIS OF THE RACEMIC FORM OF THE SEX PHEROMONE OF THE CITRUS MEALYBUG, PLANOCOCCUS CITRI (RISSO). TETRAHEDRON LETT. 23(49): 5215-18

GLENCROSS, S. D.; MANZUR, B. E. 1983

EFFICACY OF OIL EMULSION FOR THE CONTROL OF INSULASPIS CLOVERII (PACKARD) (HOMOPTERA, COCCOIDEA, DIASPIDIDAE). REVISTA DE INVESTIGACION, CIRPON 1(2): 39-45 ES EN

- GONZALEZ, R. H.; BARRIA, P., G. 1983
 SEX PHEROMONE IN THE DETECTION OF THE SAN JOSE SCALE QUADRASPIDIOTUS
 PERNICIOSUS (COMST.) REVISTA FRUITICOLA 4(2): 43-47 ES
- GRAEBNER, L.; MORENO, D. S.; BARITELLE, J. L. 1984
 THE FILIMORE CITRUS PROTECTIVE DISTRICT: A SUCCESS STORY IN INTEGRATED
 PEST MANAGEMENT. BULL ENTOM SOC AMER 30(4): 27-33
- GRANARA, DE WILLINK C. 1983
 SPILOCOCCUS RADICALIS NEW SPECIES OF PSEUDOCOCCID FROM ARGENTINA HOMOPTERA
 PSEUDOCOCCIDAE. ACTA ZOOL LILLOANA 37(1): 55-58 SP
- GRANARA, DE WILLINK C. 1983
 THREE SPECIES OF PHENACOCCUS FROM TUCUMAN ARGENTINA HOMOPTERA
 PSEUDOCOCCIDAE. ACTA ZOOOL LILLOANA 37(1): 59-64 SP
- GRISON, P. 1984
 THE PLACE OF PLANT PROTECTION DISCIPLINES IN FOREST RESEARCH. COMPTES
 RENDUS DES SEANCES DE L'ACADEMIE D'AGRICULTURE DE FRANCE 70(7): 827-834
 FR EN
- GULLAN, P. J. 1984
 A REVISION OF THE GALL FORMING COCCOID GENUS APIOMORPHA RUBSAAMEN
 (HOMOPTERA: ERIOCOCCIDAE: APIOMORPHINAE). AUSTRALIAN J ZOOL, SUPPL SERIES
 97, 203 PP
- GULLAN, P. J. 1984
 A REVISION OF THE GALL FORMING COCCOID GENUS CYLINDROCOCCUS HOMOPTERA
 ERIOCOCCIDAE. AUST J ZOOL 32(5): 677-690
- GURKAN, S. 1982
 INVESTIGATIONS ON THE BIOECOLOGY OF PSEUDAULACASPIS PENTAGONA TARG., A
 PEST OF PEACH AND MULBERRY IN THE MARMARA REGION. BITKI KORUMA BULTENI
 22(4): 179-197 TR FR
- HAMON, A. B. 1984
 A CACTUS MEALYBUG, HYPOGEOCoccus FESTERIANUS (LIZER & TRELLES), IN FLORIDA
 (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). ENTOMOL CIRC, FL DEPT AGRIC, 236
- HAMON, A. B.; WILLIAMS, M. L. 1984
 THE SOFT SCALE INSECTS OF FLORIDA USA HOMOPTERA COCCOIDEA COCCIDAE.
 ARTHROPODS FLA NEIGHBORING LAND AREAS 11(0): 1-193
- HARDY, R. J.; TERAUDS, A.; RAPLEY, P. E. L.; WILLIAMS, M. A.; IRESON, J. E.:
 MILLER, L. A.; BRIEZE-STEGEMAN, R.; MCQUILLAN, P. B. 1982
 INSECT PEST OCCURRENCES IN TASMANIA 1980/81. INSECT PEST SURV NO 14: 1-32
- HARRIS, K. F. 1983
 STERNORRHYNCHOUS VECTORS OF PLANT VIRUSES: VIRUS VECTOR INTERACTIONS AND
 TRANSMISSION MECHANISMS. ADVANCES IN VIRUS RESEARCH 28: 113-140
- HARTLEY, A. H.; WALTER, G. H.; MORRISON, J. F. 1983
 THE ULTRASTRUCTURE OF WAX-SECRETING GLANDS OF THE COCHINEAL INSECT,
 DACTYLOPIUS OPUNTIAE (DACTYLOPIIDAE: COCCOIDEA: HOMOPTERA). PROC ELECTRON
 MICROSCOPY SOC SO AFRICA, 13: 97-98

- HASHIMOTO, A.; UEDA, M. 1985
COIL FORM WAX ON THE EGG SURFACE OF DROSICHA CORPULENTA HOMOPTERA
MARGARODIDAE. APPL ENT ZOOL 20(1): 92-93
- HERREN, H. R.; LEMA, K. M.; NEUENSCHWANDER, P. 1983
BIOLOGICAL CONTROL OF THE MEALYBUG PHENACOCCUS MANIHOTI AND THE GREEN
SPIDER MITE COMPLEX MONONYCHELLUS spp. ON CASSAVA MANIHOT ESCULENTA IN
AFRICA. 10TH INT CONG PLANT PROT. VOL 2.
- HERREN, H. R.; BENNETT, F. D.; HAWKSWORTH, D. L. 1984
CASSAVA PESTS, THEIR SPREAD AND CONTROL. ADVANCING AGRICULTURAL
PRODUCTION IN AFRICA. PROC CAB'S FIRST SCI CONF, 12-18
- HERREN, H. R.; GREATHEAD, A. H.; MARKHAM, R. H.; MURPHY, R. J.; MURPHY, S. T.;
ROBERTSON, I. A. D. 1984
AFRICA-WIDE BIOLOGICAL CONTROL PROGRAMME OF CASSAVA MEALYBUG (PHENACOCCUS
MANIHOTI MATILE-FERRERO, HOMOPTERA: PSEUDOCOCCIDAE) AND CASSAVA GREEN MITE
COMPLEX (MONONYCHELLUS spp., ACARINA: TETRANYCHIDAE). INTEGRATED PEST MGM
OF CASSAVA GREEN MITE. PROC REG TRAINING WORKSHOP IN EAST AFRICA PP 63-66
- HILL, M. G.; NEWBERY, D. M. 1982
AN ANALYSIS OF THE ORIGINS AND AFFINITIES OF THE COCCID FAUNA (COCCOIDEA:
HOMOPTERA) OF WESTERN INDIAN OCEAN ISLANDS, WITH SPECIAL REFERENCE TO
ALDABRA ATOLL. J BIOGEOGR 9(3): 223-229
- HORNOK, L.; KOZAR, F. 1984
FUNGI ASSOCIATED WITH A SCALE INSECT QUADRASPIDIOTUS OSTREAEFORMIS
HOMOPTERA COCCOIDEA DIASPIDIDAE. ACTA PHYTOPATHOL ACAD SCI HUNG 19(1-2):
9-12
- HOU, K.; CHEN, Y. 1985
THE VEGETATION CONDITION OF THE BEST GROWING REGION OF THE LAC INSECT IN
YUNNAN CHINA. ACTA BOT YUNNANICA 7(1): 17-24 CH
- HOUSTON, D. R. 1984
DEVELOPMENTS IN BIOLOGICAL CONTROL OF BEECH BARK DISEASE. 10TH INT CONG
PLANT PROT 3: 1035-1041
- HOWELL, J. F.; GEORGE, D. A. 1984
EFFICACY AND PERSISTENCE OF CHLORPYRIFOS RESIDUES ON PEACHES FOR CONTROL
OF SAN JOSE SCALE (HOMOPTERA: DIASPIDIDAE). J. ECON ENTOM 77(2): 534-6
- HUANG, P. K. 1982
A BRIEF HISTORY OF THE INTRODUCTION OF LACE INSECT, LACCIFER LACCA KERR
FROM YUNNAN INTO FUJIAN (HOMOPTERA: LACCIFERIDAE). WUYI SCI J
2: 146-151. CH EN
- HUANG, L. L.; WANG, D. W.; ZHANG, W.; ZHU, W.; MATSUMOTO, K. 1983
A STUDY ON THE BIOLOGY AND CONTROL OF THE ARROWHEAD SCALE (UNASPIS
YANONENSIS KUWANA). PROC INT SOC CITRICULTURE 1981 2: 640-643
- HUSAIN, T.; AGARWAL, M. M. 1982
NEW DESCRIPTIONS, STUDIES ON SOME APHELINID (HYM.: CHALCIDOIDEA) PARASITES
OF HEMIPTEROUS INSECTS OF INDIA. J BOMBAY NAT HIST SOC 79(1): 155-162

- IBADOVA, S. I. 1985
 PHENACOCCUS MESPILI AND ITS ENTOMOPHAGES ON APSHERON AZERBAIJAN-SSR USSR.
 IZV AKAD NAUK AZ SSR SER BIOL NAUK 32-36. RU AZ
- IBADOVA, S. I. 1985
 THE APPLE MEALYBUG PHENACOCCUS MESPILI SIGN. AND ITS NATURAL ENEMIES IN
 THE APSHERONSKIY PENINSULA. IZVESTIYA AKAD NAUK AZERBAIDZHANSKOI SSR,
 BIOL NAUK 1: 32-36
- IHEAGWAM, E. U.; ELUWA, M. C. 1983
 THE EFFECTS OF TEMPERATURE ON THE DEVELOPMENT OF THE IMMATURE STAGES OF
 THE CASSAVA MEALYBUG PHENACOCCUS MANIHOTI MAT-FERR (HOMOPTERA,
 PSEUDOCOCCIDAE). DEUTSCHE ENTOM ZEITSCHRIFT 30(1/3): 17-22
- INTERNATIONAL INSTITUTE OF TROPICAL AGRICULTURE. 1984
 IITH ANNUAL REPORT 1983. INT INST TROP AGRIC VI. 218 PP
- ISIK, M.; TUNCEMIR, M.; YANILMAZ, A. F. 1983
 STUDY ON THE CONTROL POSSIBILITIES OF PARTHENOLECANIUM RUFLUM CKLL BY
 VERTICULLIUM LECANII (ZIMM.) VIEGAS. TURKIYE BITKI KORUMA DERGISI 7(3):
 167-175 EN TR
- JANKOWSKI, K.; PARE, J. R. 1983
 TRACE GLYCOSIDE FROM CRANBERRIES (VACCINIUM OXYCOCCUS). J NAT PROD 46(2):
 190-3
- JIANG, G. Z.; CHEN, F. G. 1984
 A NEW SPECIES OF QUERNASPIS FROM CHINA. ENTOMOTAXONOMIA 6(2/3): 237-240.
 CH
- KASHINO, E.; NOBATA, A.; ENDO, Y.; HASUMI, S. 1983
 STUDIES ON DYEING PROPERTIES OF WOOL BY NATURAL DYES, 2. THE EFFECT OF PH
 ON WOOL DYEING BY COCHINEAL. KIYO-KYORITSU JOSHI TANKI DAIGAKU 26: 55-64
- KASHINO, E.; NOBATA, A.; ENDO, Y.; HASUMI, S. 1984
 STUDIES ON THE DYEING PROPERTIES OF WOOL BY NATURAL DYES, 3. THE EFFECT
 OF MORDANTS ON WOOL DYEING BY COCHINEAL DYES. KIYO - KYORITSU JOSHI TANKI
 DAIGAKU 27: 390-46
- KASHINO, E.; ENDO, Y.; HASUMI, S. 1985
 STUDIES ON THE DYEING PROPERTIES OF WOOL BY NATURAL DYES. 4.
 APPLICABILITY OF COCHINEAL BY FREEZE DRYING ON WOOL DYEING. KIYO-KYORITSU
 JOSHI TANKI DAIGAKU 28: 23-30
- KATSOYANNOS, P. I.; ARGYRIOU, L. 1985
 THE PHENOLOGY OF THE SAN JOSE SCALE QUADRASPIDIOTUS PERNICIOSUS HOMOPTERA
 DIASPIDIDAE AND ITS ASSOCIATION WITH ITS NATURAL ENEMIES ON ALMOND TREES
 IN NORTHERN GREECE. ENTOMOPHAGA 30(1): 3-12
- KHACHATRYAN, M. G. 1984
 CYTOPHOTOMETRIC INVESTIGATION OF THE CONTENT AND CONCENTRATION OF PROTEIN
 SH GROUPS IN THE CYTOPLASM OF THE OOCYTE AND AUXILIARY CELLS DURING
 OOGENESIS OF THE ARARAT COCHINEAL. BIOL Z ARMENII 37(11): 941-946 RU EN
 ARM

- KHADER KHAN, J. D. 1984
PINEAPPLE MEALY BUG ON POTATO. PLANT PROT BULL 32(3): 113.
- KOMEMOTO, K. I. 1982
SPATIAL DISTRIBUTION OF COCCOIDS ON SHOOT OF MISCANTHUS SINENSIS. NANKI SEIBUTSU 24(1): 26-30 JA
- KORENAGA, R.; SAKAGAMI, Y.; MATSUMOTO, K. 1983
PREDICTION OF THE OCCURRENCE OF THE ARROWHEAD SCALE UNASPIS YANONENSIS (KUWANA). PROC INT SOC CITRICULTURE, 2: 700-704
- KOZAR, F.; TRANFAGLIA, A.; PELLIZZARI, G. 1984
NEW RECORDS ON THE SCALE INSECT FAUNA OF ITALY HOMOPTERA COCCOIDEA. BOLL LAB ENTOMOL AGRAR FILIPPO SILVESTRI 41: 3-10
- KOTEJA, J. 1984
CEROCOCCUS CYLIGER (GOUX) (HOMOPTERA, COCCINEA) NEW TO THER POLISH FAUNA. BULL ENTOMOL POLOGNE 54: 413-422 POLISH
- KOTEJA, J. 1984
NOTES ON THE SCALE-INSECT FAUNA OF POLAND (HOMOPTERA, COCCINEA). POLSKIE PISMO ENTOM 53(4): 673-677
- KOTEJA, J. 1984
THE BALTIC AMBER MATSUOCoccidae (HOMOPTERA, COCCINEA). ANN ZOOL (WARSZAWA) 37: 437-496 POLISH
- KOTEJA, J. 1985
ESSAY ON THE PREHISTORY OF SCALE INSECTS (HOMOPTERA, COCCINEA). ANN ZOOL 38: 461-503
- KOTZE, J. M. 1983
INTEGRATED PROTECTION IN SUB-TROPICAL CROPS. 10th INT CONG PLANT PROT, VOL 3.
- KOZAR, F. 1984
RECENT DATA ON THE SCALE INSECT HOMOPTERA COCCOIDEA FAUNA OF HUNGARY. ALLATTANI KOZL 71(1-4). 119-132. HU
- KOZAR, F.; TRANFAGLIA, A.; PELLIZZARI, G. 1984
NEW RECORDS ON THE SCALE INSECT FAUNA OF ITALY HOMOPTERA COCCOIDEA. BOLL LAB ENTOMOL AGRAR FILIPPO SILVESTRI 41: 3-10
- KSIAZKIEWICZ-KAPRALSKA, M. 1984
ULTRASTRUCTURE OF THE IMAGINAL OENOCYTES IN ASPIDIOTUS HEDERAE HOMOPTERA COCCOIDEA. ACTA BIOL CRACOV SER ZOOL 26: 1-5
- KUMAR, R. 1984
COCOA INDUSTRY AND ITS PEST PROBLEMS IN GHANA. UTTAR PRADESH J OF ZOOL 4(1): 43-50
- LAREW, H.; CAPIZZI, J. 1983
COMMON INSECT AND MITE GALLS OF THE PACIFIC NORTHWEST STUDIES IN ENTOMOLOGY NUMBER 5. OREG STATE MONOGR STUD ENTOMOL 5: 1-80

- LE RU, B.; SILVIE, P.; PAPIEROK, B. 1985
 THE ENTOMOPHYTHORACEOUS FUNGUS NEOZYGITES FUMOSA PARASITIZING THE CASSAVA
 MEALYBUG PHENACOCCUS MANIHOTI HOMOPTERA PSEUDOCOCCIDAE IN THE CONGO.
 ENTOMOPHAGA 30(1): 23-30. FR
- LIOTTA, G. 1983
 ROLE OF APHELINIDAE IN THE NATURAL CONTROL OF THE CHAFF SCALE, PARLATORIA
 PERGANDII COMSTOCK (HOMOPTERA, DIASPIDIDAE) IN SICILY. "REDIA" GIORNALE D
 ZOOLOGIA 66: 553-561
- MACGREGOR LOAEZA, R.; SAMPEDRO, ROSAS G. 1984(1983)
 CATALOG OF MEXICAN COCCIDS 1. FAMILY DACTYLOPIIDAE HOMOPTERA-COCCOIDEA.
 AN INST BIOL UNIV NAC AUTON MEX SER ZOOL 54(1): 217-224. SP
- MAGUE, D. L. 1982
 BIOLOGY OF THE SAN JOSE SCALE (QUADRASPIDIOTUS PERNICIOSUS (COMSTOCK))
 (HOMOPTERA: DIASPIDIDAE) IN NEW YORK STATE APPLE ORCHARDS: MALE FLIGHT
 PHENOLOGY AND CRAWLER DISPERSAL. DISSERTATION ABSTR INT (B) 43(4): 975
- MAHDIHASSAN, S. 1982
 BRACHYMERIA TACHARIDAE (CAM.) A HYPERPARASITE OF LAC INSECTS. PROC PAKIST
 ACAD SCI 19(2): 139-142
- MAHMOOD, R.; MOHYUDDIN, A. I.; KAZIMI, S. K. 1980
 RASTROCoccus SPINOSUS (ROBINSON) (HOMOPTERA: PSUDOCCIDAE) AND ITS NATURAL
 ENEMIES IN PAKISTAN. PROC PAK CONGR ZOOL 1(B): 291-294.
- MALHOTRA, C. P. 1983
 SYSTEMATIC TRIALS OF CULTURING LAC INSECT, KERRIA LACCA IN USSR WITH A
 SHORT BIBLIOGRAPHY OF LAC INSECT AND ITS HOST PLANTS. INDIAN J FORESTRY
 6(4): 269-274
- MALHOTRA, C. P.; CHOWDHURY, M. K. 1983
 BIOLOGY OF ELASMUS CLARIPENNIS CAM. (ELASMIDAE: HYMENOPTERA), AN
 ECTOPARASITOID OF THE LAC PREDATOR, EUBLEMMA AMABILIS MOORE (NOCTUIDAE:
 LEPIDOPTERA). ENTOMON 8(4): 321-324
- MALLEA, A. R.; MACOLA, G. S.; GARCIA, SAEZ, J. G.; LAMATI, S. J. 1983
 LOCALIZATION OF PYEMOTES SP ACARINA PYEMOTIDAE ON SAISSETIA OLEAE
 HOMOPTERA LECAIIDAE. INTERSECTUM 15(1-3): 8-10 SP
- MANSILLA, J. P.; PUERTO, G. 1984
 PRESENCE OF INSECTS ON AMERICAN CHERRY (PRUNUS SEROTINA FHRH) IN GALICIA.
 BOL DEL SERVICIO DE DEFENSA CONTRA PLAGAS E INSPECCION FITOPATHOLOGICA
 10(2): 251-255 ES EN
- MARTIN MATEO, M. P. 1984
 PRELIMINARY INVENTORY OF THE COCCIDAE OF SPAIN 1. DIASPIDIDAE. GRAELLSIA
 39: 47-72 SP
- MARTIN MATEO, M. P. 1984
 PRELIMINARY INVENTORY OF THE COCCIDAE OF SPAIN 2. ASTEROLECANIDAE
 KERMOCOCCIDAE COCCIDAE AND ACLERIDAE. GRAELLSIA 40: 63-80 SP

- MATESOVA, G. J. 1981
 NEW SPECIES OF MIROCOCOPSIS FROM KAZAKHSTAN. TRUDY ZOOL INST LENINGR
 105: 56-62 RU
- MATESOVA, G. J. 1984
 A NEW SPECIES OF THE GENUS HELIOCoccus HOMOPTERA PSEUDOCOCCIDAE FROM
 KAZAKHSTAN USSR. ZOOL ZH 63(9): 1427-1429 RU
- MATILE-FERRERO, D. 1983
 ALLOCoccus EUPHORBIAE (EZZAT & MCCONNELL), A NEW PEST OF GERANIUM IN
 SOUTHERN FRANCE. L'ENTOMOLOGISTE. 39(5): 253-255
- MAURITIUS SUGAR IND RES INST 1984
 ANNUAL REPORT 1983. REDUIT, MAURITIUS, MAURITIUS SUGAR IND RES INST. 77
 PP
- MCCLURE, M. S.; HARE, J. D. 1984
 FOLIAR TERPENOIDS IN TSUGA spp AND THE FECUNDITY OF SCALE INSECTS.
 OECOLOGIA 63(2): 185-193
- MEIRLEIRE, H. DE. 1984
 PULVINARIA SCALE INSECTS OF ORNAMENTAL TREES: TWO SPECIES NOT TO BE
 CONFUSED. PHYTOMA 354: 37-38 FR
- MENDEL, Z. 1984
 PROVENANCE AS A FACTOR IN SUSCEPTIBILITY OF PINUS HALEPENSIS TO
 MATSUCOCCUS JOSEPHI (HOMOPTERA: MARGARODIDAE). FOREST ECOLOGY AND
 MANAGEMENT 9(4): 259-266
- MENDEL, Z.; PODOLER, H.; ROSEN, D. 1984
 POPULATION DYNAMICS OF THE MEDITERRANEAN BLACK SCALE SAISSETIA OLEAE ON
 CITRUS IN ISRAEL 4. THE NATURAL ENEMIES. J ENTOMOL SOC SOUTH AFR 47(1):
 1-22
- MIHAJLOVIC, L.; KOZARZEVSKAJA, E. 1983
 THE EFFECTIVENESS OF NATURAL ENEMIES IN REDUCING POPULATIONS OF SOME
 HARMFUL SCALE INSECTS (HOMOPTERA: COCCOIDEA). ZASTITA BILJA 34(2):
 195-301 SH EN
- MILLER, D. R.; GILL, R. J.; WILLIAMS, D. J. 1984
 TAXONOMIC ANALYSIS OF PSEUDOCOCCUS AFFINIS (MASKELL), A SENIOR SYNONYM OF
 PSEUDOCOCCUS OBSCURUS ESSIG, AND A COMPARISON WITH PSEUDOCOCCUS MARITIMUS
 (EHRHORN) (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). PROC ENT SOC WASH 86(3):
 703-713
- MILLER, D. R.; WILLIAMS, D. J. 1985
 LECTOTYPE DESIGNATION FOR PSEUDOCOCCUS AFFINIS HOMOPTERA COCCOIDEA
 PSEUDOCOCCIDAE. PROC ENT SOC WASH 87(2): 480
- MONTERMINI, A. 1985
 CONTROL OF THE PEACH PEST PSEUDAULACASPIS PENTAGONA. INF. FITOPATOL.
 35(2): 10-16 IT
- MORENO, D. S.; KENNEDY, C. E.; MATSUMOTO, K. 1983
 MONITORING INSECT PEST POPULATIONS BY TRAPPING IN CALIFORNIA CITRUS
 ORCHARDS. PROC INT SOC CITRICULTURE 1981 2: 684-689.

- MORI, K. 1982
 RECENT PROGRESS IN THE SYNTHESIS OF OPTICALLY ACTIVE PHEROMONES.
 SYMPOSIUM INT, INST NAT DE LA RECHERCHE AGRONOMIQUE 41-53, COLLOQUES DE
 L'INRA NO. 7
- MOSQUERA, P. F. 1984
 THE GENUS CEROPLASTES HOMOPTERA COCCIDAE OF COLOMBIA 2. CALDASIA 14(66):
 125-148 SP
- MOURSI, K. S.; HEGAZI, E. M. 1983
 THE OLIVE TREE SCALE, LEUCASPIS RICCAE TRG. (HOM.: DIASPIDIDAE) AS A KEY
 PEST OF OLIVE TREES IN DRY FARM SYSTEM IN THE EGYPTIAN WESTERN DESERT.
 BOLLETTINO DEL LABORATORIO DI ENTOMOLOGIA AGRARIA 'FILIPPO SILVESTRI' 40:
 119-124 EN IT
- MURAKAMI, Y.; ABE, N.; COSENZA, G. W. 1984
 PARASITOIDS OF SCALE INSECTS AND APHIDS ON CITRUS IN THE CERRADOS REGION
 OF BRAZIL HYMENOPTERA CHALCICOIDEA. APPL ENTOMOL ZOOL 19(2): 237-244
- MURRAY, D. A. H. 1982
 PINEAPPLE SCALE (DIASPIS BROMELIAE (KERNER) DISTRIBUTION AND SEASONAL
 HISTORY (QUEENSLAND)). QUEENSLAND J AGRIC AND ANIM SCI 39(2): 125-130
- MURTY, R. L. 1983
 SYNTHETIC PYRETHROIDS - THEIR USE AND ABUSE. PESTICIDES: 56-57
- MYARTSEVA, S. N. 1983
 SPECIFICITY OF ENCYRTID HYMENOPTERA CHALCIDOIDEA ENCYRTIDAE PARASITISM IN
 CENTRAL ASIA. IZV AKAD NAUK TURKM SSR SER BIOL NAUK 4: 39-44 RU
- MYARTSEVA, S. N. 1983
 ZONES OF FEEDING SPECIALIZATION AND ADAPTIVE RADIATION IN ENCYRTIDS
 HYMENOPTERA ON COCCIDS HOMOPTERA COCCOIDEA. IZV AKAD NAUK TURKM SSR SER
 BIOL NAUK 6: 45-49 RU
- NAKAGAWA, N.; MORI, K. 1984
 NEW SYNTHESSES OF (R)-(+)-3-ACETOXY-2, 6-DIMETHYL-1,5-HEPTADIENE, THE
 PHEROMONE OF THE COMSTOCK MEALYBUG. AGRIC AND BIOL CHEM 48(11): 2799-2803
- NAYA, Y.; YOSHIHARA, K.; IWASHITA, T.; KOMURA, H.; NAKANISHI, K.; HATA, Y.
 1981
 UNUSUAL SESTERTERPENOIDS FROM THE SECRETION OF CEROPLASTES FLORIDENSIS
 (COCCIDAE), AN ORCHARD PEST. APPLICATION OF THE ALLYLIC BENZOATE METHOD
 FOR DETERMINATION OF ABSOLUTE CONFIGURATION. J AM CHEM SOC 103(23):
 7009-7011
- NECHOLS, J. R.; SEIBERT, T. F. 1985
 BIOLOGICAL CONTROL OF THE SPHERICAL MEALYBUG NIPAECCUS VASTATOR
 HOMOPTERA PSEUDOCCIDAE ASSESSMENT BY ANT EXCLUSION. ENVIRON ENTOMOL
 14(1): 45-47
- NECHOLS, J. R.; KIKUCH, R. S. 1985.
 HOST SELECTION OF THE SPHERICAL MEALYBUG HOMOPTERA PSEUDOCODCIDAE BY
 ANAGYRUS INDICUS HYMENOPTERA ENCYRTIDAE INFLUENCE OF HOST STAGE ON
 PARASITOID OVIPOSITION DEVELOPMENT SEX RATIO AND SURVIVAL. ENVIRON
 ENTOMOL 14(1): 32-37

- NEUBAUER, I.; MATSUMOTO, K. 1981
LOW VOLUME OIL SPRAYS TO CONTROL THE SOFT SCALE, CEROPLASTES FLORIDENSIS COMSTOCK, IN CITRUS TREES IN ISRAEL. PROC INT SOC CITRICULTURE 2: 614-615
- NIEMCZYK, H. E. 1983
PARTHOLECANIUM CORNI BOUCHE, PEST OF PLUMS. OCHRONA ROSLIN 27(8): 9-11
- NIGAM, H. 1983
COMPLEX OF BIOTIC AGENTS ASSOCIATED WITH PINK MEALY BUG OF SUGARCANE, SACCHARICOCCUS SACCHARI CKLL IN TARAI REGION OF UTTAR PRADESH. INDIAN J OF ENT 45(3): 321
- NOBL, H. 1983
THE (HONEYDEW) FLOW FROM LECANIIDS (COCCIDS) AND LACHNIDS IN THE AUSTRIAN ALPS. BIENENWELT 25: 129-136; 157-161 DE
- NOHARA, K.; MATSUMOTO, K. 1983
FUNDAMENTAL STUDIES ON INTEGRATED PEST CONTROL. PROC INT SOC CITRICULTURE 1981 (2): 635-636
- NOYES, J. S. 1984
A NEW GENUS AND SPECIES OF ENCYRTID (HYMENOPTERA: CHALCIDOIDEA) PARASITIC ON THE CASSAVA MEALYBUG, PHENACOCCUS MANIHOTI MATILLE-FERRERO (HEMIPTERA: PSEUDOCOCCIDAE). BULL ENTOM RES 74(3): 529-533
- NUR, U.; BRETT, B. L. H. 1985
GENOTYPES SUPPRESSING MEIOTIC DRIVE OF A B CHROMOSOME IN THE MEALYBUG PSEUDOCOCCUS OBSCURUS. GENETICS 110(1): 73-92.
- OHKUBO, N.; MATSUMOTO, K. 1981
ROLE OF PETROLEUM OIL SPRAYS IN AN INTEGRATED PEST MANAGEMENT SYSTEM OF CITRUS CROPS IN JAPAN. PROC INT SOC CITRICULTURE. 2: 611-614
- OLMI, M.; CURRADO, I.; SAMPO, A. 1984
A NEW PEST OF RED SPRUCE IN ITALY: PAROUDABILIS PICEAE (LOW)(HEMIPTERA PSEUDOCOCCIDAE). ANNALI DELLA FACOLTA DI SCIENZE AGRARIE DELLA UNIVERSITA DEGLI STUDI DI TORINO 12: 1-6 IT EN
- OPINION 1203. 1982
ERIOCoccidae COCKERELL, 1899 CONSERVED: TYPE SPECIES DESIGNATED FOR ERIOCOCCUS TARGIONI-TOZZETTI, 1868 (INSECTA, HOMOPTERA). BULL ZOOL NOM (39)2: 95-98
- ORDOGH, G.; TAKACS, A. 1983
THE EFFECTIVITY OF PYROTOX AGAINST LARVAE OF SCALE INSECTS (PSEUDOCOCCUS MARITIMUS, SAISSETIA COFFEEAE, ASPIDIOTUS NERII) DAMAGING POTTED ORNAMENTALS. NOVENYVEDELEM 19(9): 417-419 HU
- OSSIANNILSSON, F. 1984
ON THE DISTRIBUTION OF ORTHEZIIDAE HOMOPTERA COCCOIDEA IN SWEDEN. ENTOMOL TIDSKR 105(4): 123-127 SS
- OSTROFSKY, W. D.; SHORTLE, W. C.; BLANCHARD, R. O. 1984
BARK PHENOLICS OF AMERICAN BEECH (*FAGUS GRANDIFOLIA*) IN RELATION TO THE BEECH BARK DISEASE (*CRYPTOCOCCUS FAGISUGA*, *NECTRIA COCCINEA*). EUROPEAN J FOREST PATH 14(1): 52-59 EN FR GE

- OU, B R; HONG, G J; YANG, X C; WANG, Y D; LIAO, T S 1984
STUDIES ON THE BIOLOGY OF LAC INSECT LACCIFER LACCA. ACTA ENTOMOL SIN
27(1): 70-80 CH
- PANIS, A. 1984
SCALE INSECTS [PESTS OF VINEYARDS, CONTROL]. VITITECHNIQUE 75: 22-24 FR
- PARAMESWARAN, N. 1983
RICKETTSIA LIKE ORGANISMS IN CRYPTOCOCCUS FAGISUGA ON BEECH. EUROPEAN J
FOREST PATH 13(5/6): 376-380 EN FR DE
- PARAMONOV, O. V.; SAAKYAN-BARANOVA, A. A. 1984
PULVINARIA RIBESIAE HOMOPTERA COCCOIDEA AND ITS PARASITES IN THE
BELORUSSIAN-SSR USSR. ENTOMOL OBOZR 63(2): 250-258 RU
- PARIDA, B. B.; GHOSH, D. 1985
STUDIES ON THE CHROMOSOME CONSTITUTION IN 6 SPECIES OF SCALE INSECTS
COCCOIDEA HOMOPTERA FROM INDIA. CIS 0(37). 14-15
- PELEG, B. A. 1983
EFFECT OF 3 INSECT GROWTH REGULATORS ON LARVAL DEVELOPMENT, FECUNDITY AND
EGG VIABILITY OF THE COCCINELLID CHILOCORUS BIPUSTULATUS (COLEOPTERA:
COCCINELIDAE). ENTOMOPHAGA 28(2): 117-121
- PELLIZZARI SCALTRITI, G. 1981(1982)
OSSERVAZIONI BIOLOGICHE SULLA EUPHILIPPIA OLIVINA BERL. & SILV. NEL VENETO
(HOMOPTERA COCCIDAE) MEMORIE SOC ENT ITAL 60(2): 289-297. IT EN
- PEREZ, G.; CARNERO, A.; BARQUIN, J. 1984
DYSMICOCCUS ALAZON HOMOPTERA COCCOIDEA A BANANA PEST 1, TAXONOMIC STUDY.
AN INST NAC INVEST AGRAR SER AGRIC 26: 93-112. SP
- PEREZ, G.; CARNERO, A.; BARQUIN, J. 1984
DYSMICOCCUS ALAZON HOMOPTERA COCCOIDEA A BANANA PEST 2. BIOLOGY AND
CONTROL PROVISIONAL REPORT. AN INST NAC INVEST AGRAR SER AGRICO 26:
113-136 SP
- PERRIN, R. 1979
MENACE SUR LES HETRES. RECHERCHE NO. 106: 1275-1276 FR
- PETTY, G. 1984
METHYL BROMIDE STERILISATION OF PINEAPPLE PLANTS. INFOR BULL, CITRUS &
SUBTROP FRUIT RES INST, 147: 1-2, 4
- PINTO, W. B. S.; PRATES, H. S. 1982
PRELIMINARY NOTE: RECORDING OF ORTHEZIA PRAE LONGA DOUGLAS, 1981
(HOMOPTERA, ORTHEZIIDAE) ON NEW HOSTS IN SAO PAULO STATE. PROC TROP REG
AM SOC HORTIC SCI ANNU MEET 25: 209
- PLANT PROT GROUP, CITY ARCHITECTURE BRIGADE, BEIBEI DISTRICT, CHONGQING CITY,
SICHUAN PROVINCE, CHINA. 1982
PRELIMINARY REPORT ON THE BIOLOGY AND CONTROL OF ASTEROCOCCUS YUNNANENSIS
BORCHS. INSECT KNOWLEDGE 19(3): 30-31. CH

- PODOLER, H.; HENEN, J. 1983
 A COMPARATIVE STUDY OF THE EFFECTS OF CONSTANT TEMPERATURES ON DEVELOPMENT TIME AND SURVIVAL OF TWO COCCINELLID BEETLES OF THE GENUS CHILOCORUS.
PHYTOPARASITICA 11(3/4): 167-176
- PRINSLOO, G. L.; MYNHARDT, M. J. 1981
 NEW SPECIES OF COCCOID INHABITING ENCYRTIDAE FROM SOUTH AFRICA 1.
PHYTOPHYLACTICA 13(3): 149-154 EN AF FR
- PRUETT, C. J. H.; COLQUE, A., E. 1984
 THE OCCURRENCE AND DISTRIBUTION OF SACCHARICOCCUS SACCHARI AND ITS PARASITE ANAGYRUS SACCHARICOLA IN SUGARCANE IN THE BOLIVIAN ORIENT. *ENTOM NEWSLETTER* 16: 11-13
- PULEV, V. 1984
 THE DEVELOPMENT OF BIOLOGICAL CONTROL IN OUR COUNTRY. *RASTITELNA SASHCHITA* 32(7): 36-40 BG
- QUAYYOOM, M. A. 1983
 COMPARATIVE TAXONOMIC MORPHOLOGY OF DROSICHA STEBBINGI (GREEN) AND DROSICHIELLA TAMARINDUS (GREEN) ADULT MALES. *PAKISTAN J ZOOL* 15(2): 177-182
- RADWAN, Z.; LOVEI, G. L. 1983
 STRUCTURE AND SEASONAL DYNAMICS OF LARVAL PUPAL AND ADULT COCCINELLID COLEOPTERA COCCINELLIDAE ASSEMBLAGES IN 2 TYPES OF MAIZE FIELDS IN HUNGARY. *Z ANGEW ENTOMOL* 96(4): 396-408
- RAKHA, M. A.; MCCOY, C. W. 1985
 EUPALOPSELLID MITES ON FLORIDA USA CITRUS WITH A DESCRIPTION OF EXOTHORHIS CAUDATA DEVELOPMENT STAGES EUPALOPSELLIDAE RAPHIGNATHOIDEA. *FLA ENTOMOL* 68(1): 141-144
- RAO, N. S.; BARWAL, R. N. 1983
 BROWN SCALE, SAISETIA COFFEAE (WALKER)(COCCIDAE: HOMOPTERA), A NEW PEST OF BRINJAL AND ITS PARASITES IN MANIPUR. *SCI AND CULTURE* 49(8): 255
- RAO, A. V.; RAO, T. R. 1984
 OCCURRENCE OF AULACASPIS MADIUNENSIS ZEHNTER ON SUGARCANE IN INDIA. *INDIAN J OF AGRIC SCI* 54(6): 512
- RAO, P. R. M.; KANAKARAJU, A.; APPARAO, R. V.; AZAM, K. M. 1984
 PREDATORS OF MEALY BUG OF MESTA. *QUARTERLY NEWSLETTER, FAO ASIA & PAC PLANT PROT COMM* 27(4): 12
- RAY, C. H., JR.; WILLIAMS, M. L. 1984
 2 NEW SPECIES OF MATSUCOCCUS HOMOPTERA MARGARODIDAE FROM ARIZONA USA AND MEXICO WITH A KEY TO SPECIES IN NORTH AMERICA. *ANN ENTOMOL SOC AM* 77(6): 765-769.
- REISSIG, W. H.; WEIRES, R. W.; ONSTAD, D. W.; STANLEY, B. H.; STANLEY, D. M. 1985
 TIMING AND EFFECTIVENESS OF INSECTICIDE TREATMENTS AGAINST THE SAN JOSE SCALE (HOMOPTERA: DIASPIDIDAE). *J ECON ENT* 78(1): 238-48
- REUNION, IRAT-REUNION 1983
 ANNUAL REPORT, 1982. ST. DENIS, REUNION 215 PP

- REZWANI, A.; RADJABI, G. 1983
 BIOLOGY OF SPHAEROLECANIUM PRUNASTRI BOYER DE FONSCOLOMBE IN IRAN.
 ENTOMOLOGIE ET PHYTOPATHOLOGIE APPLIQUEES 51(1/2): 17-22. PE EN
- RICCI, J. G. 1983
 DESCRIPTION OF THE IMMATURE STAGES OF LINDORUS LOPHANTHAE (BLAISDELL) (COL.
 COCCINELLIDAE), A PREDATOR OF SCALE INSECTS (HOMOPTERA) ON CITRUS IN
 TUCUMAN (ARGENTINA). REVISTA DE INVESTIGACION, CIRPON 1: 1, 1-14 ES EN
- RICHARDS, A. M. 1985
 BIOLOGY AND DEFENSIVE ADAPTATIONS IN RODATUS MAJOR COLEOPTERA
 COCCINELLIDAE AND ITS PREY MONOPHLEBUS PILOSIOR HEMIPTERA HOMOPTERA
 MARGARODIDAE. J ZOOL (LOND) 205(2): 287-296.
- RILISHKENE, M. A.; SEM'YANOV, V. P. 1981
 STUDY OF THE ABUNDANCE AND HARMFULNESS OF ROSE FLIES IN ROSE PLANTATIONS
 IN LITHUANIA. NOVEISHIE DOSTIZHENIYA SEL'SKOKHOZYAISTVENNOI ENTOMOLOGII.
 PP 140-144 RU
- RIOM, J. 1984
 INTEREST OF TELEDETECTION METHODS IN FOLLOWING THE PROGRESS OF FOREST
 PROTECTION PROBLEMS. COMPTES RENDUS DES SEANCES DE L'ACADEMIE
 D'AGRICULTURE DE FRANCE 70(7): 857-870 FR
- ROSCIGLIONE, B.; CASTELLANO, M. A.; MARTELLI, G. P.; SAVINO, V.;
 CANNIZZARO, G. 1984
 MEALYBUG TRANSMISSION OF GRAPEVINE VIRUS A (PSEUDOCOCCUS LONGISPINUS).
 VITIS 22(4): 331-347 GER EN
- SACHAN, A. S.; GANGWAR, S. K.; SACHAN, J. N. 1983
 SEASONAL INCIDENCE OF MAJOR INSECT PESTS OF KHASI MANDARIN (CITRUS
 RETICULATA BLANCO) AT HIGH ALTITUDES IN MEGHALAYA. INDIAN J PLANT PROT
 10: 1/2: 46-48
- SALAMA, H.S.; SALEH, M. 1984
 COMPONENTS OF THE ESSENTIAL OIL OF THREE CITRUS SPECIES IN CORRELATION TO
 THE IR INFESTATION WITH SCALE INSECTS. Z. ANGEW. ENTOMOL. 97(4) 393-398
- SANDS, D. P. A. 1984
 DISSOLVING WAX FROM SCALE INSECTS A METHOD FOR ASSESSING PARASITISM AND
 DETERMINING INSTARS OF CEROPLASTES spp AND GASCARDIA DESTRUCTOR HOMOPTERA
 COCCIDAE. J AUST ENTOMOL SOC 23(4): 295-296
- SARKISOV, R. N. 1984
 THE ARARAT COCHINEAL INSECT PORPHYROPHORA HAMELI BIOLOGY AND
 POSSIBILITIES FOR ITS PRESERVATION AND ECONOMIC UTILIZATION. BIOL ZH ARM
 37(11): 916-925 RU
- SARKISOV, R. N.; MKRTCHYAN, L. P.; KHECHOYAN, L. S. 1982
 EFFECT OF STARVATION ON THE REPRODUCTIVE FUNCTION OF ARARATIAN COCHINEAL,
 PORPHYLORPHORA HAMELI BRANDT. BIOLOGICHESKII ZH. ARMENII 35(10):
 832-835 RU ARM EN
- SARKISYAN, N. A. 1982
 CONTROL OF THE MUSSEL SCALE. ZASHCHITA RAST. 3: 26 RU

- SCALTRITI, G. PELLIZZARI 1982
 NOTES ON TWO COMMON SCOURGES OF LIME. L'ALBERTO, L'UOMO, LA CITTA, ATTI DEL 20 CONVEGNO NAZIONALE TENUTO A PADOVA IL 18 SETTEMBRE 1982 IT EN
- SCHREMMER, F. 1984
 BEHAVIORAL ECOLOGY OF THE PLANT ANT PSEUDOMYRMEX TRIPLARINUS WHICH INHABITS THE ANT TREES OF THE GENUS TRIPLARIS. ZOOL JAHRB ABT SYST OEKOL GEOGR TIERE 111(3): 385-410 GE
- SCHULTZ, P. B. 1984
 NATURAL ENEMIES OF OAK LECANIUM (HOMOPTERA: COCCIDAE) IN EASTERN VIRGINIA. ENV ENTOM 13(6): 1515-1518
- SCHUTT, P. 1979
 BEECH BARK DISEASE AND FIR DIE BACK, TWO WELL KNOWN FOREST DISEASES OF UTMOST IMPORTANCE. MITTEILUNGEN DER DEUTSCHEN DENDROLOGISCHEN GESELLSCHAFT 71: 229-235 DE
- SCHVESTER, D.; DEMOLIN, G. 1984
 PROBLEMS RAISED BY INSECT PESTS OF MEDITERRANEAN FORESTS. COMPTES RENDUS DES SEANCES DE L'ACADEMIE D'AGRICULTURE DE FRANCE 70(7): 845-855 FR EN
- SEVUMYAN, A. A.; SARKISOV, R. N. 1983
 BIOMASS OF THE ARARAT COCHINEAL INHABITING REEDS OF VARIOUS ECOTYPES. BIOL ZH ARM 36(9): 795-796 RU
- SEVUMYAN, A. A.; SARKISOV, R. N. 1984
 EFFECT OF WEEDING AND LOOSENING OF THE SOIL ON THE ARARAT COCHINEAL BIOMASS YIELD. BIOL ZH ARM 37(7): 578-581 RU
- SHAFFEE, S.A.; FATMA, A. 1985
 TAXONOMIC NOTES ON INDIAN SPECIES OF ECHTHROPLEXIS FORSTER (HYMENOPTERA, ENCYRTIDAE), WITH DESCRIPTIONS OF TWO NEW SPECIES. DEPT ZOOL, AGIGARH MUSLIN U., ALIGARH, INDIA
- SHAUKUNTHALA, V. A. 1983
 OCCURRENCE OF A NEW SCALE INSECT ON SUGARCANE IN CAUVERY DELTA IN TAMIL NADU. THE MADRAS AGRIC J. 70(8): 545-547
- SHIYOMI, M.; HIROSAKI, S. 1984
 PEST DENSITY PREDICTION USING A MULTIPLE REGRESSION MODEL UNDER A 2-STAGE SAMPLING SCHEDULE. JAPANESE J APPL ENTOM AND ZOOL 28(4): 237-243. JA EN
- SHUTOVA, N. N.; ANTADZE, A. I.; MURVANIDZE, M. N.; TIMOFEEVA, T. V. 1985
 BIOLOGICAL CONTROL OF PESTS OF CITRUS CROPS. ZASCHITA RASTENII 2, 37 PP. RU
- SIEWNIAK, M. 1983
 DAMAGE TO SCOTS PINE CAUSED BY MATSUCOCCUS PINI. FOLIA FORESTALIA POLONICA, A (LESNICTWO) 25: 79-93 DE PL RU
- SIEWNIAK, M. 1983
 STUDIES ON THE ABUNDANCE, HOST-PARASITE RELATIONSHIPS AND POPULATION DYNAMICS OF MATSUCOCCUS PINI. FOLIA FORESTALIA POLONICA, A 25: 49-77 DE PL RU

- SIKHARULIDZE, A. M.; INTSKIRVELI, M. M. 1983
 FACTORS LIMITING DAMAGE BY THE IVY SCALE. SUBTROP KUL'T (1): 118-121 RU
- SILVA, A. DE B.; MAGALHAES, B. P.; COSTA, M. S. 1981
 INSECTS AND A MITE INJURIOUS TO CASSAVA IN AMAZONIA. BOLETIM DE PESQUISA,
 CENTRO DE PESQUISA AGROPECUARIA DO TROPICO UMEDO 31. 35 PP. PT EN
- SMETNIK, A. I.; KONSTANTINOVA, G. M. 1983
 THE USE OF SYNTHETIC SEX PHEROMONES IN PLANT QUARANTINE IN THE USSR. 10TH
 INT CONG PLANT PROT 1983, VOL 2. P. 882
- SMETNIK, A. I.; MAKSIMOVA, B. I.; KONSTANTINOVA, G. M.; ISHCHEKO, R. I.;
 SHELUKHIN, V. I. 1983
 TRIALS WITH THE SEX PHEROMONE OF THE SAN JOSE SCALE. ZASHCH RAST 9: 38.
 RU
- SORIA, S. D. J.; SILVA, P. 1983
 INSECTS AND MITES IMPORTANT TO CACAO THEOBROMA CACAO FOR QUARANTINE IN
 BRAZIL. REV THEOBROMA 13(4): 343-348 PT
- SPEIGHT, M. R. 1984
 TREE PESTS - 11 HORSE CHESTNUT SCALE, PULVINARIA REGALIS CANARD.
 ARBORICULTURAL J 8(4): 287-290
- SRIVASTAVA, D. C.; CHAUHAN, N. S.; TEOTIA, T. P. S. 1984
 SEASONAL ABUNDANCE OF INSECTS ASSOCIATED WITH THE INDIAN LAC INSECT KERRIA
 LACCA. INDIAN J ECOL 11(1): 37-42
- SRIVASTAVA, R. P.; TANDON, P. L. 1983
 RESEARCH ON MANGO MEALY BUG PAST AND PRESENT. PROG HORTIC 15(1-2): 139-146
- STANSLY, P. A. 1984
 INTRODUCTION AND EVALUATION OF CHILOCORUS BIPUSTULATUS (COL.:
 COCCINELLIDAE) FOR CONTROL OF PARLATORIA BLANCHARDI (HOM.: DIASPIDIDAE) IN
 DATE GROVES OF NIGER. ENTOMOPHAGA 29(1): 29-39
- STEPANOVA, N. E.; SEM YANOV, V. P. 1981
 INVASION OF THE ENTOMOFAUNA OF THE KRASNODAR REGION BY FOREIGN SPECIES.
 NOVEISHIE DOSTIZHENIYA SEL SKOKHOZYAISTVENNOI ENTOMOLOGII 160-162 RU
- STERNLIGHT, M.; DUNKELBLUM, E.; ROELOFS, W. L. 1984
 MANAGEMENT OF SCALE PESTS THROUGH UTILIZATION OF THEIR PHEROMONE: FINAL
 REPORT
- SU, Z. A.; ZHAI, Q. H.; LIANG, Z. Q.; GUO, C. T. 1981
 CHEMICAL CONSTITUENTS OF OLEORESINS FROM NINETEEN PINE TREE SPECIES AND
 THEIR RELATIONSHIPS TO SPECIES AND MATSUCOCCUS MATSUMURAE ATTACK.
 CHEMISTRY AND INDUSTRY OF FOREST PRODUCTS 1(3): 1-11 CH EN
- SUGONYAEV, E. S. 1983
 A REVIEW OF CHALCIDAE OF THE GENUS BLASTOTHRIX HYMENOPTERA ENCYRTIDAE IN
 NORTH AMERICA. ENTOMOL OBOZR 62(3): 601-609 RU

- SUGONYAEV, E. S. 1984
 CHALCIDS (HYMENOPTERA, CHALCIDOIDEA) - PARASITES OF SCALE INSECTS (HOMOPTERA, COCCOIDEA) OF THE FAUNA OF THE USSR. A COMPLEX STUDY OF HOST-PARASITE SYSTEMS IN INSECTS. TRUDY ZOOLOGICHESKOGO INST, AKAD NAUK 117. 232 PP RU
- SUPILCY FILHO, N.; SAMPAIO, A. S.; MYAZAKI, I. 1983
 NOTES ON THE COCCID ORTHEZIA PRAELONGA DOUGLAS, 1891, AN IMPORTANT PEST OF BRAZILIAN CITRUS CROPS. BIOLOGICO 49(1): 19-24 PT
- TACHIKAWA, T. 1982
 DISCOVERY OF COMPERIELLA INDICA AYYAR, AN ECONOMICALLY IMPORTANT PARASITE OF ASPIDOTUS CRYPTOMERIAE, FROM JAPAN (HYMENOPTERA: CHALCIDOIDEA - ENCYRTIDAE). TRANS SHIKOKU ENT SOC 16(1-2): 103-106
- TACHIKAWA, T. 1984
 THE MALES OF THE GENUS CERAPTEROCEROIDES ASHMEAD (HYMENOPTERA: CHALCIDOIDEA-ENCYRTIDAE). TRANS OF THE SHIKOKU ENTOM SOC 16(3): 41-44
- TAKAGI, M. 1983
 A PRELIMINARY RELEASE TEST OF APHYTIS YANONENSIS DEBACH & ROSEN (HYMENOPTERA: APHELINIDAE), A PARASITOID OF UNASPIS YANONENSIS (KUWANA). PROC ASSOC PLANT PROT KYUSHU 29: 153-154 JA EN
- TAKAGI, K.; MATSUMOTO, K. 1983
 EVALUATION OF PARASITOIDS OF LATENT PESTS WITH A STICKY SUCTION TRAP. PROC INT SOC CITRICULTURE 1981: 627-630
- TAKAHASHI, S.; TAKABAYASHI, J. 1984
 HOST SELECTION BEHAVIOR OF ANICETUS BENEFICUS (HYMENOPTERA: ENCYRTIDAE). II. BIOASSAY OF OVIPOSITION STIMULANTS IN CEROPLASTES RUBENS MASKELL. APPL ENTOMOL ZOOL 19(1): 117-119
- TANAKA, M.; MATSUMOTO, K. 1983
 BIOLOGICAL CONTROL OF ARROWHEAD SCALE, UNASPIS YANONENSIS (KUWANA), IN THE IMPLEMENTATION OF IPM PROGRAMS OF CITRUS ORCHARDS IN JAPAN. PROC INT SOC CITRICULTURE 636-640
- TANG, F. T.; CHU, C. Y. 1983
 THREE NEW SPECIES OF DIASPIDIDAE FROM KETELEERIA EVELYNIANA IN THE VICINITY OF KUNMING, YUNNAN. ACTA ZOOTAXONOMICA SINICA 8(3): 301-306. CH EN(SUMM)
- TAO, C. C.; WONG, C.; CHANG, Y. 1983
 MONOGRAPH OF COCCIDAE OF TAIWAN, REPUBLIC OF CHINA (HOMOPTERA: COCCOIDEA). J OF TAIWAN MUS 36(1): 57-107.
- TASSAN, R. L.; HAGEN, K. S.; CASSIDY, D. V. 1982
 BIOLOGICAL CONTROL OF ICE PLANT SCALES IN CALIFORNIA. ANNUAL MEET, ENT SOC AM PACIF BRCH 65. 8.
- TERAN, A. L.; CLAPS, L. 1983
 A NEW PEST OF CITRUS IN TUCUMANN, ARGENTINA: THE SCALE INSECT SERPETA FINA, INSULASPIS GLOVERII (PACKARD), HOMOPTERA, COCCOIDEA, DIASPIDIDAE. REVISTA DE INVESTIGACION 1(1): 33-37 ES

- TEREZNIKOVA, E. M. 1982
 KEY TO THE COCCID PESTS OF AGRICULTURAL AND FOREST CROPS IN THE UKRAINE.
 NAUKOVA DUMKA 1-73 RU
- TIPPINS, H. H.; BESHEAR, R. J. 1983
 NOTES ON THE MEALYBUG *FERRISIA FLORIDANA*. J GA ENTOMOL SOC 18(4): 452-454
- TRANFLAGLIA, A. 1983
 FINDINGS ON PSEUDOCOCCIDAE AND COCCIDAE (HOMOPTERA, COCCOIDEA) NEW TO THE
 ITALIAN FAUNA. ATTI XIII CONGRESSO NAZIONALE ITALIANO DI ENTOMOLOGIA
 453-458 IT EN
- TRANFLAGLIA, A.; MAROTTA, S. 1983
 HOMOPTERA COCCOIDEA. VI. TWO NEW SPECIES OF COCCOIDEA FROM SOUTH AFRICA
 ON GERANIUM CROPS. BOLLETTINO - LABORATORIO DI ENTOMOLOGIA AGRARIA 39:
 53-58 IT EN
- TRENCHEV, G.; ILCHEVA, I. 1984
 INSECTICIDES FOR THE CONTROL OF PLUM SCALE *PARTHENOLECANIUM CORNI BOUCHE*
 (HOMOPTERA: COCCIDAE) LARVAE DURING THE GROWING PERIOD. GRADINER, LOZAR,
 NAUKA (GRLNA9). 21(8): 31-7 BULG
- TRIPATHI, S. R.; TEWARY, P. 1984
 BIOLOGY OF THE SUGARCANE SCALE INSECT *MELANASPIS-GLOMERATA DIASPIDIDAE*
 COCCOIDEA. J ADV ZOOL 5(2): 68-78
- TRYAPITSYN, V. A. 1984
 A NEW SPECIES OF PARASITIC HYMENOPTERA OF THE GENUS *AETHOGNATHUS*
 ENCYRTIDAE FROM EQUATORIAL GUINEA. ZOOL ZH 63(2): 294-296 RU
- ULLAH, G. M. R.; CHOWDHURY, S. H. 1984 :
 SACCHARICOCCUS SACCHARI A NEW COCCOID FROM BANGLADESH ATTACKING
 SUGARCANE. BANGLADESH J ZOOL 12(2): 117-120
- UNITED KINGDOM, FORESTRY COMM 1983
 REPORT ON FOREST RESEARCH FOR THE YEAR ENDED MARCH 1983. 89 PP
- URABE, S.; YANAGISAWA, M. 1984
 ADAPTING A SYNTHETIC DYE TO A NATURAL DYE-COLOR SAMPLE BY COMPUTER COLOR
 MATCHING (JAPAN). KENKYU KIYO - TOKYO KASEI DAIGAKU 24(2): 171-179
- VAN ROSSEM, G.; BURGER, H. C.; DE GOFFAU, L. J. W. 1982
 INTERESTING INFESTATIONS OF INSECTS IN 1981. ENTOMOL BER, AMST 42(6):
 84-87 DUTCH EN
- VEIRA, R. M. DA S.; CARMONA, M. M.; PITA, M. DE S. 1983
 ON THE COCCIDS OF THE MADEIRA ARCHIPELAGO (HOMOPTERA - COCCOIDEA). BOL DO
 MUSEU MUNICIPAL DO FUNCHAL 35: 151-155, 81-162 PT EN
- VENKATESULU, K. 1984
 EVALUATION OF TARA 909 AND METHOMYL FOR THE CONTROL OF COFFEE GREEN
 SCALE. J COFFEE RES 14(2): 69-71
- VICTOR, R. 1984
 HUMIDITY REACTIONS IN TWO SPECIES OF PSEUDOCCID MEALYBUGS *PHENACOCCUS*
MANIHOTI MATILE-FERRERO AND *PHANACOCCUS MADEIRENSIS* GREEN (HOMOPTERA:
 PSEUDOCOCCIDAE). REVUE DE ZOOLOGIE AFRICAINE 98(2): 229-242

- VIDANO, C. 1983
ACTUAL AND POTENTIAL INSECT PESTS OF ROBINIA PSEUDOACACIA. L'APICOLTORE MODERNO 74(5): 181-185 IT EN
- VIGGIANI, G.; BATTAGLIA, D. 1983
PRELIMINARY OBSERVATIONS OF ANAGYRUS FUSCIVENTRIS (GIRault), A NEW PARASITE OF PSEUDOCOCCUS CALCEOLARiae (MASKELL) IN ITALY. BOLLETTINO DEL LABORATORIO DI ENTOMOLOGIA AGRARIA 'FILIPPO SILVESTRI' 40: 109-114 IT EN
- VIOLIER, B.; FAUVEL, G. 1984
COMPARISON OF THE FAUNA LIVING ON 2 SPECIES OF PEAR, PYRUS AMGDALIFORMIS VILL. AND P. COMMUNIS L., IN FALLOW OR UNCULTIVATED LAND AND IN AN ABANDONED ORCHARD IN THE MONTPELLIER REGION. AGRONOMIE 4: 1, 11-18
- WALTER-ECHOLS, G.; AGOUNKE, D.; AKPALOO, Y. 1983
IMPORTANCE OF CASSAVA, COWPEA AND MAIZE PESTS IN TOGO, WEST AFRICA. 10TH INT CONG PLANT PROTECTION 1983. PROC OF A CONF HELD AT BRIGHTON, ENGLAND, 20-25 NOV, 1983
- WANG, S. J. 1981
PRELIMINARY NOTES ON UNACHIONASPIS BAMBUSAE COCKERELL. KUNCHONG ZHISHI 18(4): 163-164 CH
- WANG, T. C. 1981
A MOUNTING METHOD FOR COCCOIDEA. INSECT KNOWLEDGE 18(2): 91 CH
- WANG, T. Y. 1981
A PRELIMINARY STUDY ON ERIOCOCCUS SP. INSECT KNOWLEDGE 18(2): 57-58 CH
- WANG, L. Y. 1982
CONTROL OF MATSUCOCCUS MASSONIANÆ YOUNG ET HU (HOM.: MARGARODIDAE) BY LEIS AXYRIDIS (PALLAS). NATURAL ENEMIES OF INSECTS 4(4): 37-39 CH
- WANG, X. M.; ZAO, Y. L. 1983
A PRELIMINARY STUDY OF BEIJINGA UTILA, A NATURAL ENEMY OF THE CHINESE SCHOLARTREE COCCID. NINGXIA AGRIC SCI AND TECH 5: 22-24 CH
- WILLIAMS, D. J. 1984
TWO NEW SPECIES OF EURYCOCCUS (HEMIPTERA: PSEUDOCOCCIDAE) ON TAMARIX FROM PAKISTAN. BULL ENT RES 74(3): 535-540
- WILLIAMS, D. J. 1985
SOME SOUTH AMERICAN SCALE INSECTS HOMOPTERA COCCOIDEA ON NOTHOFAGUS. J NAT HIST 19(2): 249-258
- WILLIAMS, D. J.; EDLAND, T. 1985
LEPIDOSAPHES NEWSTEADI NEW RECORD HOMOPTERA DIASPIDIDAE A SCALE INSECT NEW TO NORWAY. FAUNA NORV SER B 32(1): 45
- WITHERELL, P. C. 1984
METHYL BROMIDE FUMIGATION AS A QUARANTINE TREATMENT FOR LATANIA SCALE, HEMIBERLESIA LATANIAE (HOMOPTERA: DIASPIDIDAE). FLA ENT 67(2): 254-262
- XIE, G. L.; YAN, A. J. 1983
STUDIES ON THE BAMBOO SCALE NESTICOCCUS SINESIS TANG. ACTA ENTOMOL SINICA 26(3): 268-277 CH EN

- XU, M. X.; MIN, Q. C. 1982
STUDIES ON APHYTIS CHRYSOMPHALI (MERCET) (HYM.: APHELINIDAE), A PARASITE OF UNASPIS YANONENSIS KUWANA (HOM.: DIASPIDIDAE). NATURAL ENEMIES OF INSECTS 4(4): 19-21. CH
- YAYLA, A. 1983
PRELIMINARY STUDIES ON OLIVE PESTS AND THE ESTABLISHMENT OF THEIR NATURAL ENEMIES IN ANTALYA PROVINCE. BITKI KORUMA BULTENI 23(4): 188-206 TR EN
- YOKOMIZO, K. 1983
A NOTE ON DISEASE AND INSECT PESTS OF CITRUS IN SHECHWAN, CHINA. PROC ASSOC PLANT PROT OF KYUSHU 29: 150-153 JA
- YUKAWA, J. 1984
AN OUTBREAK OF CRYPTICERYA JACOBSONI HOMOPTERA MARGARODIDAE ON RAKATA BESAR OF THE KRAKATAU ISLANDS IN INDONESIA. APPL ENTOMOL ZOOL 19(2): 175-180
- ZAITSEV, E. F. 1984
PROTECTION OF STONE FRUITS. ZASHCHITA RASTENII 4: 54-55 RU
- ZHANG, S. Y. 1983
OBSERVATIONS ON THE EFFECTIVENESS OF THE NATURAL CONTROL OF CHILOCORUS KWANAE SILVESTRI (COL.: COCCINELLIDAE) AGAINST TWO SPECIES OF SCALES IN THE ORCHARD. NATURAL ENEMIES OF INSECTS 5(2): 86-88. CH
- ZIMBABWE, TOBACCO RESEARCH BOARD. 1983
ANNUAL REPORT AND ACCOUNTS...FOR 1983.
- ZIMMERMAN, H. G.; MORAN, V. C. 1982
ECOLOGY AND MANAGEMENT OF CACTUS WEEDS IN SOUTH AFRICA. SO AFR J SCI 78: 314-320 EN AF